FILE NOTATIONS

Entered in N I D File: ✓
Entered On S R Sheet:
Location Map Pinned:
Card Indexed ✓
I W R for State or Fee Land:

Checked by Chief:
Copy N I D to Field Office:
Approval Letter:
Disapproval Letter:

COMPLETION DATA:

Date Well Completed:
GW:____ WW:____ TA:____
OW:____ OS:____ PA:____

Location Inspected:
Bond released:
State of Fee Land:

LOGS FILED

Driller's Log:
Electric Logs (No.):
E:____ I:____ Dil:____ GR:____ GR-N:____ Micro:____
Lat:____ Mi-L:____ Sonic:____ Others:____

Form OGC-1a

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

5. Lease Designation and Serial No.: Fee

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

6. If Indian, Allottee or Tribe Name:

1a. Type of Work
DRILL [X] DEEPEN [ ] PLUG BACK [ ]

7. Unit Agreement Name:

b. Type of Well
Oil Well [X] Gas Well [ ] Other Single Zone [X] Multiple Zone [ ]

8. Farm or Lease Name: ~~Vega~~ Nelson

2. Name of Operator
Worldwide Exploration Consultants, Inc., c/o K & A, Inc.

9. Well No.: # 6-11

3. Address of Operator
2360 Anaconda Tower, 555-17th. Street, Denver, CO 80202

10. Field and Pool, or Wildcat: Wildcat

4. Location of Well (Report location clearly and in accordance with any State requirements.*)
At surface: 2,130' FSL 1,820' FWL NE SW

11. Sec., T., R., M., or Blk. and Survey or Area
At proposed prod. zone
Sec. 6, T33S, R24E SLM

14. Distance in miles and direction from nearest town or post office*
5 mi. north of Monticello, Utah

12. County or Parrish: San Juan 13. State: Utah

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drlg. line, if any)	16. No. of acres in lease	17. No. of acres assigned to this well
510	320	40

18. Distance from proposed location* to nearest well, drilling, completed, or applied for, on this lease, ft.	19. Proposed depth	20. Rotary or cable tools
	5,900 Paradox	Rotary

21. Elevations (Show whether DF, RT, GR, etc.)
6,915' GL

22. Approx. date work will start*

23. PROPOSED CASING AND CEMENTING PROGRAM

Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
14 3/4"	9 5/8"	36	950'	To Surface
8 3/4"	7"	20 & 23	4900'	85 sx
6 1/4"	4 1/2"	10.5	5900'	280 sx

Operator proposes to drill a Paradox test to a depth of 5,900' using fresh-water mud to clean the drill cuttings from the hole. Casing will be run, as shown above, except that if it is not necessary to run 7" as intermediate string, 4 1/2" casing will be run from surface to TD. Pressure control equipment will consist of 10" Series 900 double hydraulic ram BOP and 2" choke manifold.

APPROVED BY THE DIVISION
OF OIL, GAS, AND MINING
DATE: 5-20-80
BY: M. J. Minder

RECEIVED
MAY 2 1980
DIVISION OF
OIL, GAS & MINING

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.
Signed [signature] Title Asst. Oper. Mgr., K & A, Inc. Date April 30, 1980

(This space for Federal or State office use)

Permit No. 43-037-30554 Approval Date 5/20/80

Approved by ..... Title ..... Date .....
Conditions of approval, if any:

Distribution: O.C.C. - Orig. + 2
Oper. - 1
File - 1

*See Instructions On Reverse Side

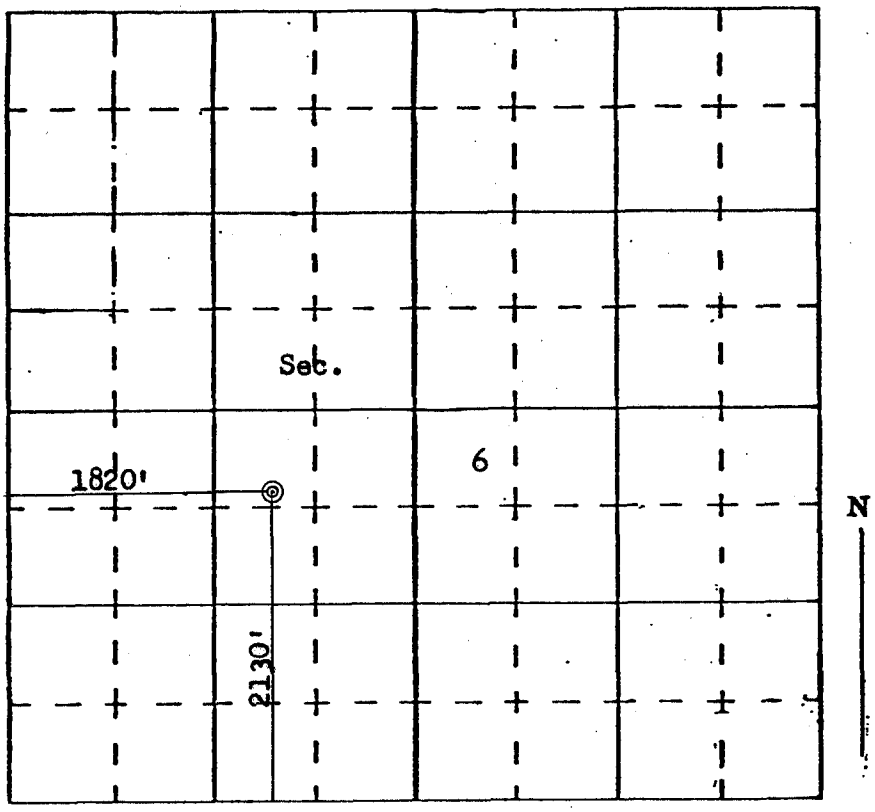
COMPANY WORLDWIDE EXPLORATION CONSULTANTS, INC.

LEASE VEGA WELL NO. 1

SEC. 6, T 33S, R 24E
San Juan County, Utah

LOCATION 2130'FSL 1820'FWL

ELEVATION 6915 ungraded ground



SCALE—4 INCHES EQUALS 1 MILE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTE OF ACTUAL SURVEYS MADE BY ME UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

Fred B. Kerr Jr.

SEAL: Registered Land Surveyor.
#3950

SURVEYED April 24, 1980

FARMINGTON, N. M.

** FILE NOTATIONS **

DATE: May 2, 1980

OPERATOR: ~~World wide Exploration Consultants, Inc.~~ MOUNTAIN STATES RESOURCES, INC.

WELL NO: Vega #1

Location: Sec. 6 T. 33S R. 24E County: San Juan

File Prepared: ✓ Entered on N.I.D: ✓

Card Indexed: ✓ Completion Sheet: ✓

API Number 43-037-30554

CHECKED BY:

Petroleum Engineer: ~~M. J. Minder~~ 5-20-80 Contingent upon receipt of bond.

Director:

Administrative Aide: Submitting bond - 5/5/80 K

APPROVAL LETTER:

Bond Required: ✓ Survey Plat Required:

Order No. O.K. Rule C-3 ✓

#1 Rule C-3(c), Topographic Exception - company owns or controls acreage within a 660' radius of proposed site

Lease Designation See Plotted on Map ✓

Approval Letter Written ✓ ltrw

Hot Line ✓ P.I. ✓

WORLDWIDE EXPLORATION CONSULTANTS

E. F. Durkee
W. T. Stoeckinger
S. L. Pederson

Suite 3365 Anaconda Tower • 555 17th Street • Denver, Colorado 80202 • Phone 303-892-0333

May 1,4 1980

Division of Oil, Gas and Mining
1588 West North Temple
Salt Lake City, Utah 84116

ATTENTION: Ms. Bonnie Melendez

Enclosed please find our Bond No. 146F3733 for the Vega #1 Well, NE SW Section 16, T. 33 S., R. 24 E., San Juan County, Utah.

If further information is needed, please contact our office.

Sincerely,

WORLDWIDE EXPLORATION CONSULTANTS, INC.

Irene G. Baker

Irene G. Baker

ib

Enclosure: Drilling Bond

Form OGC-2

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

B O N D

Bond No. 146F3733

KNOW ALL MEN BY THESE PRESENTS,

That
WE: Worldwide Exploration Consultants Inc.

of
County of Denver in the State of: Colorado

as principal
and Travelers Indemnity Company

as surety, authorized to do business in this State, are held and firmly bound unto the State in the penal sum as indicated, lawful money of the United States, for which payment, will and truly be made to the State of Utah for the use and benefit of the Division of Oil, Gas and Mining, we bind ourselves, and each of us, and each of our heirs, executors, administrators or successors, and assigns jointly and severally, firmly by these presents.

The conditions of this obligation is that whereas the above bounden principal proposes to drill a well or wells for oil, gas or stratigraphic purposes in and upon the following described land situated within the State of Utah, to wit:

Vega #1, NESW Section 16, T33S, R24E, San Juan County

State of Utah

NOW THEREFORE, if the above bounden principal shall comply with all of the provisions of the laws of this State, and the rules and regulations and orders of the Division of Oil, Gas and Mining of the State, including, but not limited to, the proper plugging of said well or wells, and filing with said Division of the State, all notices and records required by said office, then this obligation is void; otherwise, the same shall be and remain in full force and effect.

*Penal Sum of Ten Thousand and no/100---- ($10,000) State of Utah

Witness our hands and seals, this 8th day of May, 1980

Worldwide Exploration Consultants, Inc.

Principal

Witness our hands and seals, this 8th day of May, 1980

Travelers Indemnity Company

Surety
Jane A. Carmichael
Attorney-in-Fact

Approved as to form and execution:
ATTORNEY GENERAL
By:
Date:

(If the principal is a corporation, the bond should be executed by its duly authorized officers, with the seal of the corporation affixed. When principal or surety executes this bond by agent, power of attorney or other evidence of authority must accompany this bond.)

*See reverse side for instructions and bonding requirements

CERTIFICATION

I, Paul D. Tubach, Assistant Secretary (Surety) of THE TRAVELERS INDEMNITY COMPANY, certify that the foregoing power of attorney, the above quoted Sections 14. and 16. of Article IV of the By-Laws and the Resolution of the Board of Directors of November 30, 1959 have not been abridged or revoked and are now in full force and effect.

Signed and Sealed at Hartford, Connecticut, this 8th day of May 1980.

THE TRAVELERS INDEMNITY COMPANY SEAL

Paul D. Tubach
Assistant Secretary, Surety

S-1869 (BACK)

The Travelers Indemnity Company
Hartford, Connecticut

POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS:

That THE TRAVELERS INDEMNITY COMPANY, a corporation of the State of Connecticut, does hereby make, constitute and appoint

Norman Sterling, Jr., Paul M. Barbour, Norman C. Headrick, David H. Snead, Thomas J. Sisk, Jr., Judith M. Haines, Cortland P. Brown, Jane A. Carmichael, all of Denver, Colorado, EACH

its true and lawful Attorney(s)-in-Fact, with full power and authority, for and on behalf of the Company as surety, to execute and deliver and affix the seal of the Company thereto, if a seal is required, bonds, undertakings, recognizances, consents of surety or other written obligations in the nature thereof, as follows:

Any and all bonds, undertakings, recognizances, consents of surety or other written obligations in the nature thereof not exceeding in amount Two Hundred Thousand Dollars ($200,000) in any single instance

and to bind THE TRAVELERS INDEMNITY COMPANY thereby, and all of the acts of said Attorney(s)-in-Fact, pursuant to these presents, are hereby ratified and confirmed.

This appointment is made under and by authority of the following by-laws of the Company which by-laws are now in full force and effect:

ARTICLE IV, SECTION 14. The Chairman of the Board, the President, the Chairman of the Finance Committee, any Executive Vice President, any Senior Vice President, any Vice President, any Second Vice President, the Corporate Secretary or any Department Secretary may appoint attorneys-in-fact or agents with power and authority, as defined or limited in their respective powers of attorney, for and on behalf of the Company to execute and deliver, and affix the seal of the Company thereto, bonds, undertakings, recognizances, consents of surety or other written obligations in the nature thereof and any of said officers may remove any such attorney-in-fact or agent and revoke the power and authority given to him.

ARTICLE IV, SECTION 16. Any bond, undertaking, recognizance, consent of surety or written obligation in the nature thereof shall be valid and binding upon the Company when signed by the Chairman of the Board, the President, the Chairman of the Finance Committee, any Executive Vice President, any Senior Vice President, any Vice President or any Second Vice President and duly attested and sealed, if a seal is required, by the Corporate Secretary or any Department Secretary or any Assistant Corporate Secretary or any Assistant Department Secretary, or shall be valid and binding upon the Company when duly executed and sealed, if a seal is required, by a duly authorized attorney-in-fact or agent, pursuant to and within the limits of the authority granted by his or her power of attorney.

This power of attorney is signed and sealed by facsimile under and by the authority of the following Resolution adopted by the Directors of THE TRAVELERS INDEMNITY COMPANY at a meeting duly called and held on the 30th day of November, 1959:

VOTED: That the signature of any officer authorized by the By-Laws and the Company seal may be affixed by facsimile to any power of attorney or special power of attorney or certification of either given for the execution of any bond, undertaking, recognizance or other written obligation in the nature thereof; such signature and seal, when so used being hereby adopted by the Company as the original signature of such officer and the original seal of the Company, to be valid and binding upon the Company with the same force and effect as though manually affixed.

This power of attorney revokes that dated October 11, 1979 on behalf of Norman Sterling, Jr., Paul M. Barbour, Norman C. Headrick, David H. Snead, Thomas J. Sisk, Jr., Judith M. Haines

IN WITNESS WHEREOF, THE TRAVELERS INDEMNITY COMPANY has caused these presents to be signed by its proper officer and its corporate seal to be hereunto affixed this 6th day of March 19 80.

THE TRAVELERS INDEMNITY COMPANY

By

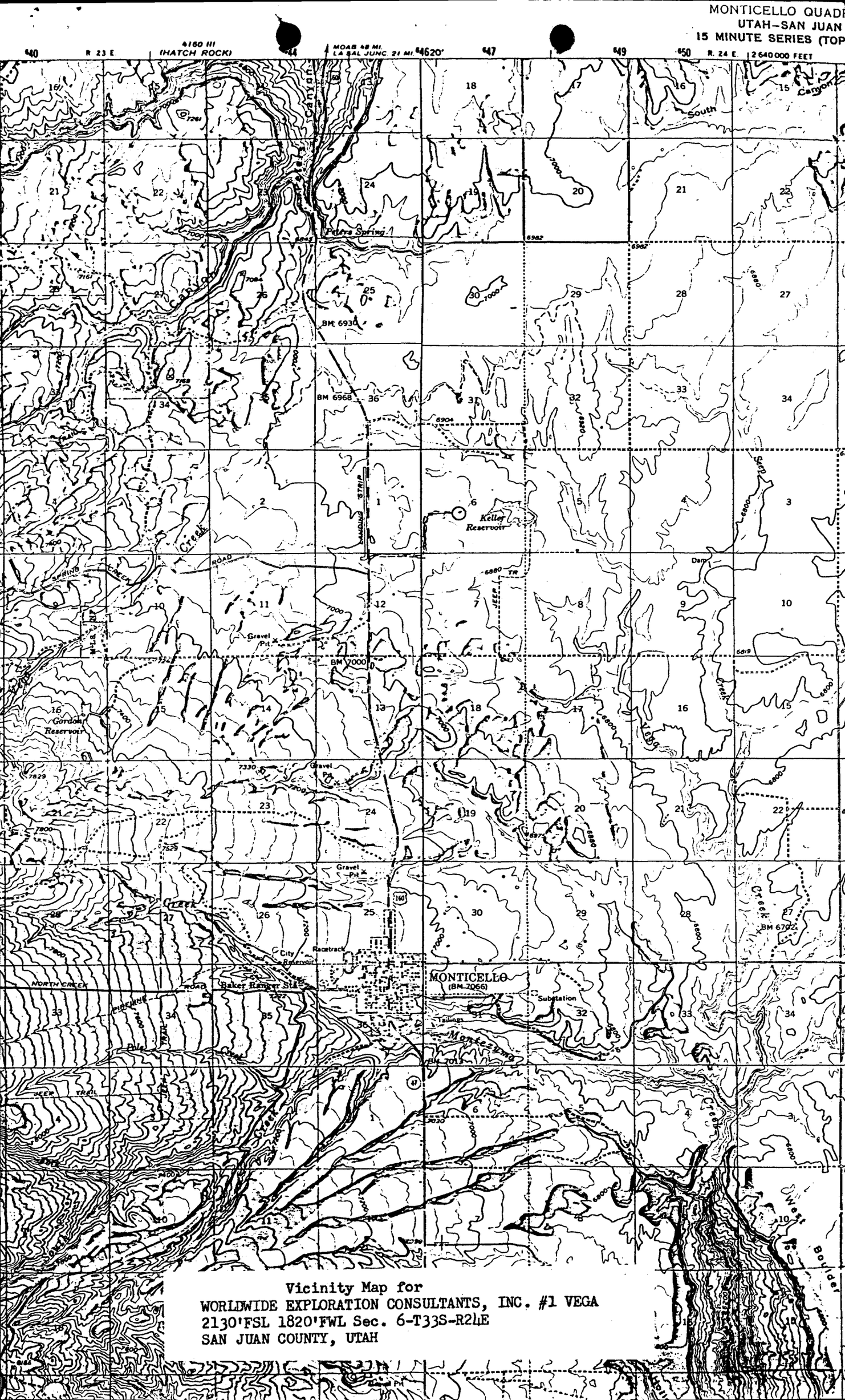
Secretary, Surety

State of Connecticut, County of Hartford—ss:

On this 6th day of March in the year 1980 before me personally came D. J. Nash to me known, who, being by me duly sworn, did depose and say: that he resides in the State of Connecticut; that he is Secretary (Surety) of THE TRAVELERS INDEMNITY COMPANY, the corporation described in and which executed the above instrument; that he knows the seal of said corporation; that the seal affixed to said instrument is such corporate seal; that it was so affixed by authority of his office under the by-laws of said corporation, and that he signed his name thereto by like authority.

Notary Public

My commission expires April 1, 1983



Vicinity Map for
WORLDWIDE EXPLORATION CONSULTANTS, INC. #1 VEGA
2130'FSL 1820'FWL Sec. 6-T33S-R24E
SAN JUAN COUNTY, UTAH

May 23, 1980

Worldwide Exploration Consultants, Inc.
2360 Anaconda Tower
555 17th Street
Denver, Colorado 80202

Re: Nelson # 6-11
~~Well No. Vega #1~~
Sec. 6, T. 33S, R. 24E.,
San Juan County, Utah

Insofar as this office is concerned, approval to drill the above referred to oil, well is hereby granted in accordance with Rule C-3 General Rules and Regulations and Rules of Practice and Procedure.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

MICHAEL T. MINDER - Petroleum Engineer
Office: 533-5771
Home: 876-3001

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (acquifers) are encountered during drilling. Your cooperation in completing this form will be appreciated.

Further, it is requested that this Division be notified within 24 hours after drilling operations co-mence, and that the drilling contractor and rig number be identified.

The API number assigned to this well is 43-037-30554.

Sincerely,

DIVISION OF OIL, GAS AND MINING

[redacted]

Michael T. Minder
Petroleum Engineer

/btm

cc

Form OGC-1a

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

CHANGE OF OPERATOR

5. Lease Designation and Serial No.: Fee

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

6. If Indian, Allottee or Tribe Name:

1a. Type of Work: DRILL [X] DEEPEN [ ] PLUG BACK [ ]

7. Unit Agreement Name: Nelson

b. Type of Well: Oil Well [X] Gas Well [ ] Other — Single Zone [ ] Multiple Zone [ ]

8. Farm or Lease Name: #6-11

2. Name of Operator: MOUNTAIN STATES RESOURCES, INC. – change of operator

9. Well No.: Wildcat - (Vega Prospect)

3. Address of Operator: CBM Building - Box 176 - Cut Bank, Montana 59427

10. Field and Pool, or Wildcat

4. Location of Well (Report location clearly and in accordance with any State requirements.*)
At surface: 2,130' FSL 1,820 FWL NESW

11. Sec., T., R., M., or Blk. and Survey or Area: Sec. 6 - T33S - R24E - SLM

At proposed prod. zone

12. County or Parrish: San Juan 13. State: Utah

14. Distance in miles and direction from nearest town or post office*: 5 mi. north of Monticello, Utah

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drlg. line, if any)	16. No. of acres in lease	17. No. of acres assigned to this well
510	320	40

18. Distance from proposed location* to nearest well, drilling, completed, or applied for, on this lease, ft.	19. Proposed depth	20. Rotary or cable tools
NONE	6,000' Paradox	Rotary

21. Elevations (Show whether DF, RT, GR, etc.): 6,915' GL

22. Approx. date work will start*: September 15, 1980

23. PROPOSED CASING AND CEMENTING PROGRAM

Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
12 1/4"	8 5/8"	24#	[redacted] 950'	~~300 Sax~~ Cement to Surface
7 7/8"	4 1/2"	10.5#	6,000'	250 Sax

1. This application replaces the one filed by Worldwide Exploration Consultants, Inc., and approved on May 20/80.
2. The name of this well will be: MOUNTAIN STATES RESOURCES, INC., MONTE GRANDE EXPLORATION, INC., NELSON #6-11.
3. Operator proposes to drill a Paradox test to a depth of 6,000' , using fresh water, gel, and chemical mud. Casing will be run as shown above. Pressure control equipment will consist of 10" Series 900 double hydraulic ram BOP abd 2" choke manifold.

APPROVED BY THE DIVISION OF OIL, GAS, AND MINING
DATE: 10-10-80
BY: M. J. Minder

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

Signed J. A. Montalbano Title Manager of Operations Date Sept. 2, 1980

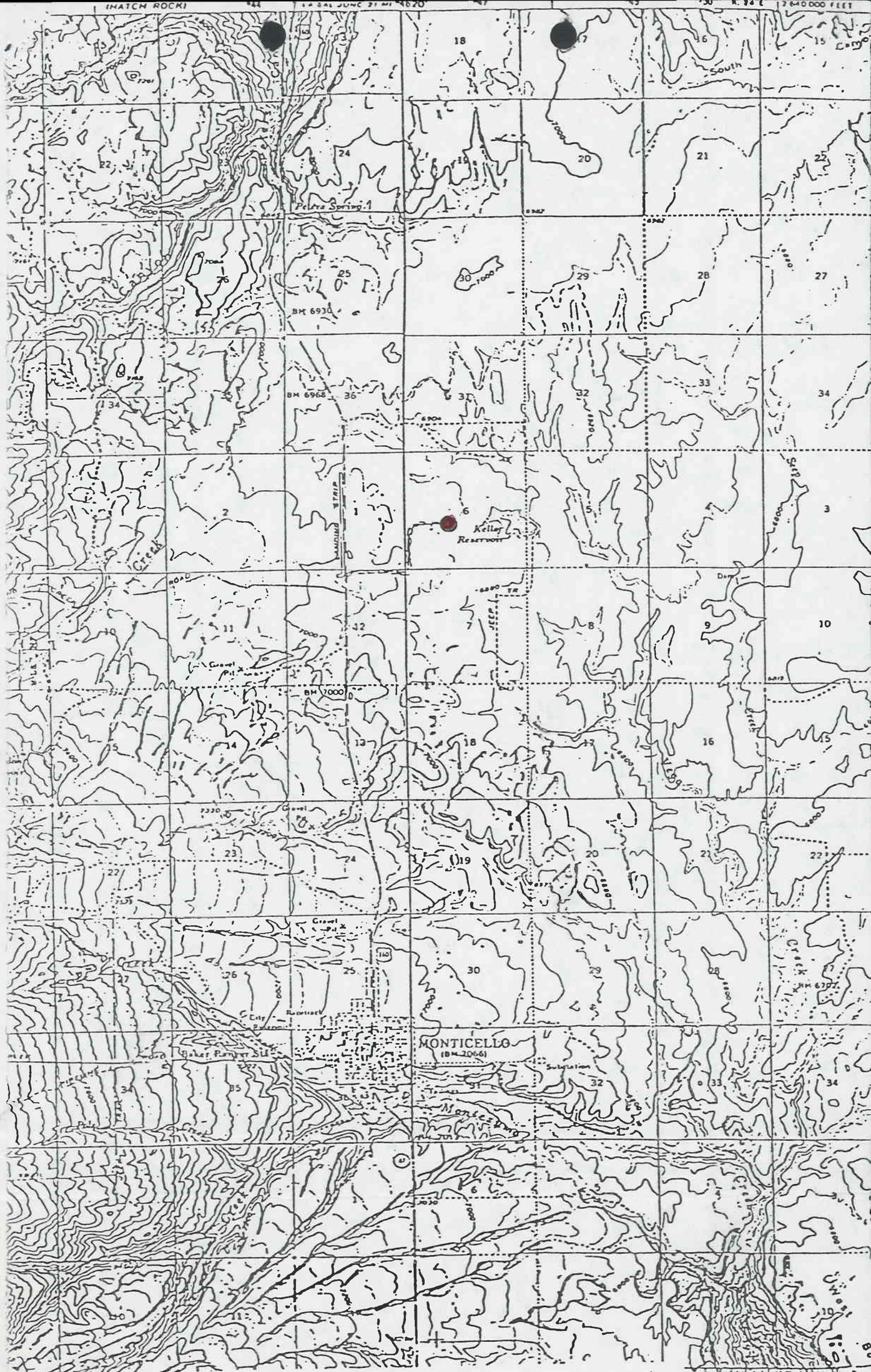
(This space for Federal or State office use)

Permit No. ..... Approval Date .....

Approved by ..... Title ..... Date .....

Conditions of approval, if any:

*See Instructions On Reverse Side



Vicinity Map for

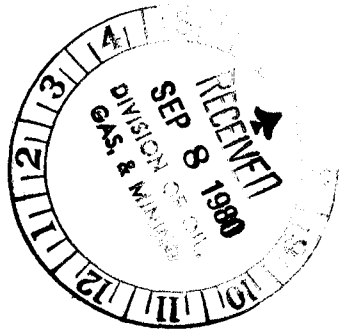
MOUNTAIN STATES RESOURCES, INC. Nelson #6-11

2130'FSL 1820'FWL Sec. 6-T33S-R24E

SAN JUAN COUNTY, UTAH

MOUNTAIN STATES RESOURCES, INC.
OIL & GAS EXPLORATION & PRODUCTION
ROCKY MOUNTAINS – WESTERN CANADA

September 4, 1980



STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
Division of Oil, Gas and Mining
1588 West North Temple
Salt Lake City, Utah 84116

Att: Michael T. Minder
Petroleum Engineer

Gentlemen:

Re: MSR/MGE NELSON #6-11 WELL
Section 6 - T33S - R24E
San Juan County, Utah

Bond being taken care of 9/12/80

We are enclosing herewith Change of Operator and application for permit to drill the above captioned well, submitted in triplicate.

Please be advised that this well was originally permitted under the name of Worldwide Exploration Consultants, Inc., and approved May 2, 1980, by your office.

Accordingly, we now wish to change the operator to Mountain States Resources, INC. out of Cut Bank, Montana, as enclosed application indicates.

We trust that you will find things in order, as we plan to commence this well around September 15, 1980.

Yours very truly,

MOUNTAIN STATES RESOURCES, INC.

J. V. Montalban - President
and Manager of Operations

JVM/cbm
Enc:
cc: Connie Krivanek, Chief Geologist
Mountain Fuel Supply Co.
P. O. Box 2329
Farmington, New Mexico 87401

cc: Robert E. Pittam, Staff Land Mgr.
Mountain Fuel Supply Co.
P. O. Box 11368
Salt Lake City, Utah 84139

November 7, 1980

Mountain States Resources, Inc.
Oil & Gas Exploration & Production
Box 176
Cut Bank, Montana 59427

RE: Well No. Nelson #6-11
Sec. 6, T. 33S, R. 24E.,
San Juan County, Utah

Dear Mr. J.V. Montalban:

Enclosed for your files please find a copy of the Approval Letter sent to the Worldwide Exploration Consultants, Inc., who was former Operator of the above well.

If you should have any question, please contact me at this office.

Very truly yours,

DIVISION OF OIL, GAS AND MINING

BARBARA HILL
CLERK TYPIST

/bjh
Enclosure/as stated

MOUNTAIN STATES RESOURCES, INC.
OIL & GAS EXPLORATION & PRODUCTION
ROCKY MOUNTAINS – WESTERN CANADA

November 12, 1980

STATE OF UTAH
Department of Natural Resources
Division of Oil, Gas & Mining
1588 West North Temple
Salt Lake City, Utah 84116

Att: Barbara Hill
Clerk Typist

Gentlemen:

RE: Well No. Nelson #6-11
Sec. 6 - T33S - R24E
San Juan County, Utah

We acknowledge receipt of your letter dated November 7, 1980.

We are not quite clear, according to the State of Utah records, if this well is now being carried in the name of MOUNTAIN STATES RESOURCES, INC., as Operator.

If not, we would appreciate your records being changed to reflect the above, as MOUNTAIN STATES RESOURCES, INC. is the active Operator, and is responsible for drilling, completion, and any liability arising therefrom.

Yours very truly,

MOUNTAIN STATES RESOURCES, INC.

J. V. Montalban - President

JVM/cbm

Form OGC-1a

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

5. Lease Designation and Serial No.: Fee

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

6. If Indian, Allottee or Tribe Name:

1a. Type of Work
DRILL [XX] DEEPEN [ ] PLUG BACK [ ]

7. Unit Agreement Name: Nelson

b. Type of Well
Oil Well [XX] Gas Well [ ] Other Single Zone [ ] Multiple Zone [ ]

8. Farm or Lease Name: #6-11

2. Name of Operator
MOUNTAIN STATES RESOURCES, INC.

9. Well No.: Wildcat - (Vega Prospect)

3. Address of Operator
CBM Building - Box 176 - Cut Bank, Montana 59427

10. Field and Pool, or Wildcat: Sec. 6 - T33S - R24E - SLM

4. Location of Well (Report location clearly and in accordance with any State requirements.)
At surface: 2,130' FSL 1,820 FWL NESW

RECEIVED
FEB 19 1981
DIVISION OF OIL, GAS & MINING

11. Sec., T., R., M., or Blk. and Survey or Area: San Juan County, Utah

At proposed prod. zone

14. Distance in miles and direction from nearest town or post office*
5 mi. north Monticello, Utah

12. County or Parrish 13. State

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drlg. line, if any): 510

16. No. of acres in lease: 320

17. No. of acres assigned to this well: 40

18. Distance from proposed location* to nearest well, drilling, completed, or applied for, on this lease, ft.: None

19. Proposed depth: 6,000' Paradox

20. Rotary or cable tools: Rotary

21. Elevations (Show whether DF, RT, GR, etc.): 6,915 GL 6,925 K.B.

22. Approx. date work will start*: September 15, 1980

23. PROPOSED CASING AND CEMENTING PROGRAM

Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
12¼"	8 5/8"	24#	400'	300 Sax to Surface
7 7/8"	4 1/2"	10.5#	6,000'	250 Sax

1. Mountain States Resources, Inc. and Monte Grande Exploration, Inc. Nelson #6-11 well has been drilled to Total Depth of 6,155'.

2. This depth was reached on February 16, 1981.

3. 5 1/2" production casing has been set to Total Depth for further evaluation and testing.

4. PLEASE NOTE AND ACKNOWLEDGE THAT THE OPERATOR OF THIS WELL HAS BEEN CHANGED TO MOUNTAIN STATES RESOURCES, INC., CUT BANK, MONTANA.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.
Signed J. V. Montalban Title Manager of Operations Date Feb. 17, 1981

(This space for Federal or State office use)

Permit No. Approval Date

Approved by Title Date

Conditions of approval, if any:

*See Instructions On Reverse Side

Final Geological Report
Nelson 6-11 Well
NE SW Section 6, T. 33 S., R. 24 E.
San Juan County, Utah

For
Mountain States Resources, Inc.
Monte Grande Exploration, Inc.
Cut Bank, Montana

February 27, 1981

By
Worldwide Exploration Consultants, Inc.
Suite 3365 Anaconda Tower
Denver, Colorado
80202

SUMMARY

Nelson 6-11 Well
NE SW Section 6, Township 33 South, Range 24 East
San Juan County, Utah

Company (Operator); Mountain States Resources, Inc.
Monte Grande Exploration, Inc.

Location: 1,980' FSL; 1,980' FWL of Section 6
Township 33 South, Range 24 East
San Juan County, Utah

Elevation: Ground = 6,915'
Kelly Bushing = 6,926' (Signal-Brinkerhoff Rig)

Status: Waiting on completion rig (February 24, 1981)

Spudded: September 22, 1980 with dry hole spudder

Total Depth Reached: 6,155'

Contractor: Colorado Pacific Drilling Company (Surface to 4,210')
Signal-Brinkerhoff Rig 63 (Cardwell 160 rig) from 4,210' to 6,155' (total depth)

Casing: 13 3/8" at 50'
8 5/8" at 2,236'
5 1/2" at 6,155'

Cores: None

Drill Stem Tests: One; 5,774'-5,802'

Samples: 30 foot samples from 0' to 600'
10 foot samples from 600' to 6,000'; 5 foot samples 6,000' to 6,155'
Two splits made plus cloth bag butts

Distribution: Mountain Fuel Supply Company
Mountain State Resources, Inc.
American Stratigraphic Company (Butts)

Mud Logging: Underwood Logging Company, Farmington, New Mexico
October 6, 1980 to October 20, 1980; From 2,830' to 4,210'
Rocky Mountain Geo Engineering Company, Grand Junction, CO
January 28, 1981 to January 16, 1981; From 4,210' to 6,155' (Total Depth).

Wire Line Logs: Dual Induction - SFL (6,075'-2,195')
FDC/CNL/GR (6,155' - 2,236')
GR (2,236' - Surface)

Formation Tops: K.B. Elevation = 6,925' (Colorado Pacific Rig - to 4,200'); 6,926' (Brinkerhoff-Signal Rig - to 6,155')
Ground Elevation = 6,915'

UNIT	-----FORMATION TOPS----- Drill Depth Feet	Depth Subsea
CRETACTEOUS		
Dakota Sandstone	Surface	+6,915'
JURASSIC		
Morrison Formation	240'	+6,685'
Summerville Formation	390'	+6,535'
Curtis Formation	680'	+6,245'
Entrada Formation	760'	+6,165'
Carmel Formation	950'	+5,975'
Navajo Formation	1,065'	+5,860'
JURASSIC-TRIASSIC		
Kayenta Formation	1,220'	+5,705'
TRIASSIC		
Wingate Formation	1,420'	+5,505'
Chinle Formation	1,720'	+5,205'
Shinarump Formation	2,575'	+4,350'
Moenkopi Formation	2,796'	+4,129'
PERMIAN		
Cutler Formation	2,870'	+4,056'
PENNSYLVANIAN		
Hermosa Formation	3,750'	+3,776'
Honaker Trail	4,625'	+2,301'
Paradox	5,351'	+1,577'
Upper Ismay	5,681'	+1,245'
Second Shale	5,820'	+1,106'
Piute Knoll (Lower Upper Ismay)	5,834'	+1,092'
Lower Ismay Shale	5,918'	+1,008'
Lower Ismay Lst.	5,986'	+ 940'
"B" Zone Shale	6,044'	+ 882'
Desert Creek	6,102'	+ 824'
Salt	6,144'	+ 782'

Supervision: Engineering - Mr. J. V. Montalban
Geological - Worldwide Exploration Consultants, Inc., Denver, Colorado
S. L. Pederson - Surface to 4,210'
E. F. Durkee - 4,210' to 6,155' (Total Depth)

General Results: The well was drilled with air and mist/water from the surface to 2,240 feet at which point water became a problem and 8 5/8" surface casing was set at 2,236 feet. The well was then mist drilled to 2,716 feet, where the hole started sloughing and the decision was made to drill with mud. Drilling mud was used as the drilling fluid from 2,716 feet to 6,155 feet (total depth). At 4,210 feet the hole was filled with heavy mud and the small rig of Colorado Pacific Drilling Company was released on October 20, 1980.

Signal-Brinkerhoff's Rig 63 was moved on location on January 26, 1981. The hole was re-entered, mud conditioned and hole reamed to 4,210 feet. Drilling of new hole commenced on January 31, 1981 and continued to a total depth of 6,155 feet on February 15, 1981.

The test encountered interesting gas shows in the Honaker Trail, Upper Ismay, Lower Upper Ismay (Piute Knoll equivalent), and upper bench of the Desert Creek. The lower bench was not present. Another well should be drilled one or more miles south to southwest. Such a location would provide an opportunity to hopefully find the lower Desert Creek porosity zone, such as present at Bug field to the southeast.

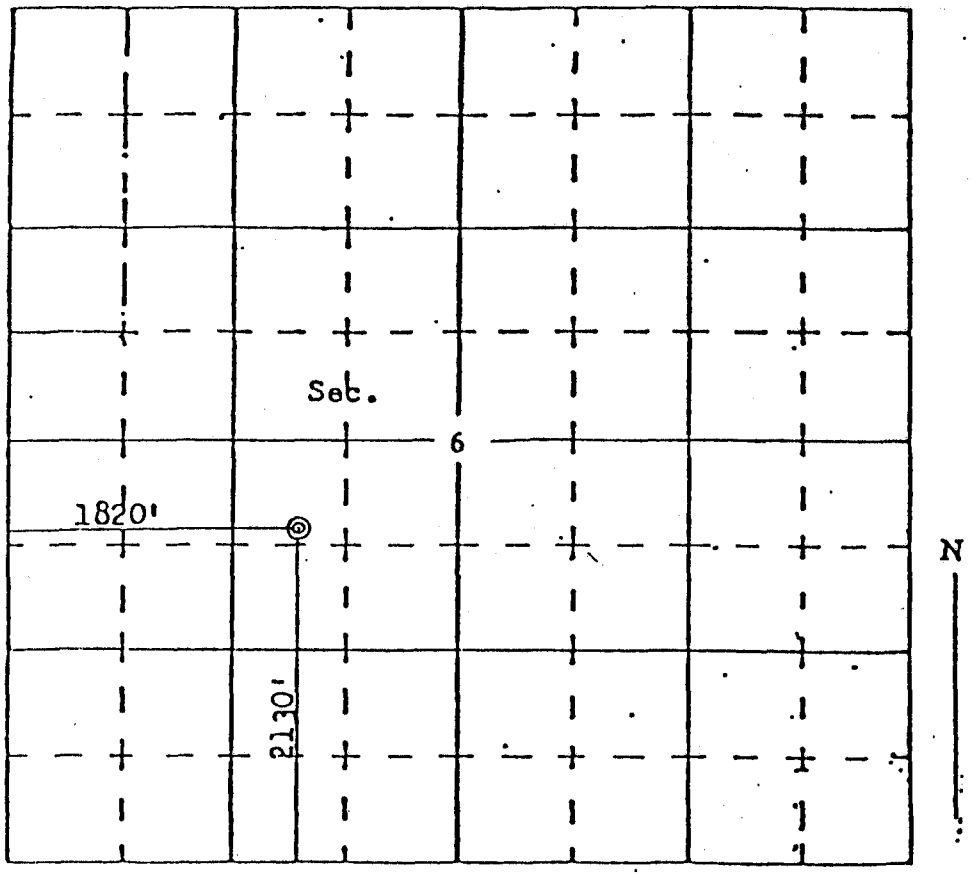
COMPANY MOUNTAIN STATES RESOURCES, INC.

LEASE Gwen Vier Nelson WELL NO. #6-11

SEC. 6, T 33S, R 24E
San Juan County, Utah

LOCATION 2130'FSL 1820'FWL

ELEVATION 6915 ungraded ground K.B. 6926



SCALE—4 INCHES EQUALS 1 MILE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTE OF ACTUAL SURVEYS MADE BY ME UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

Fred B. Kerr Jr.

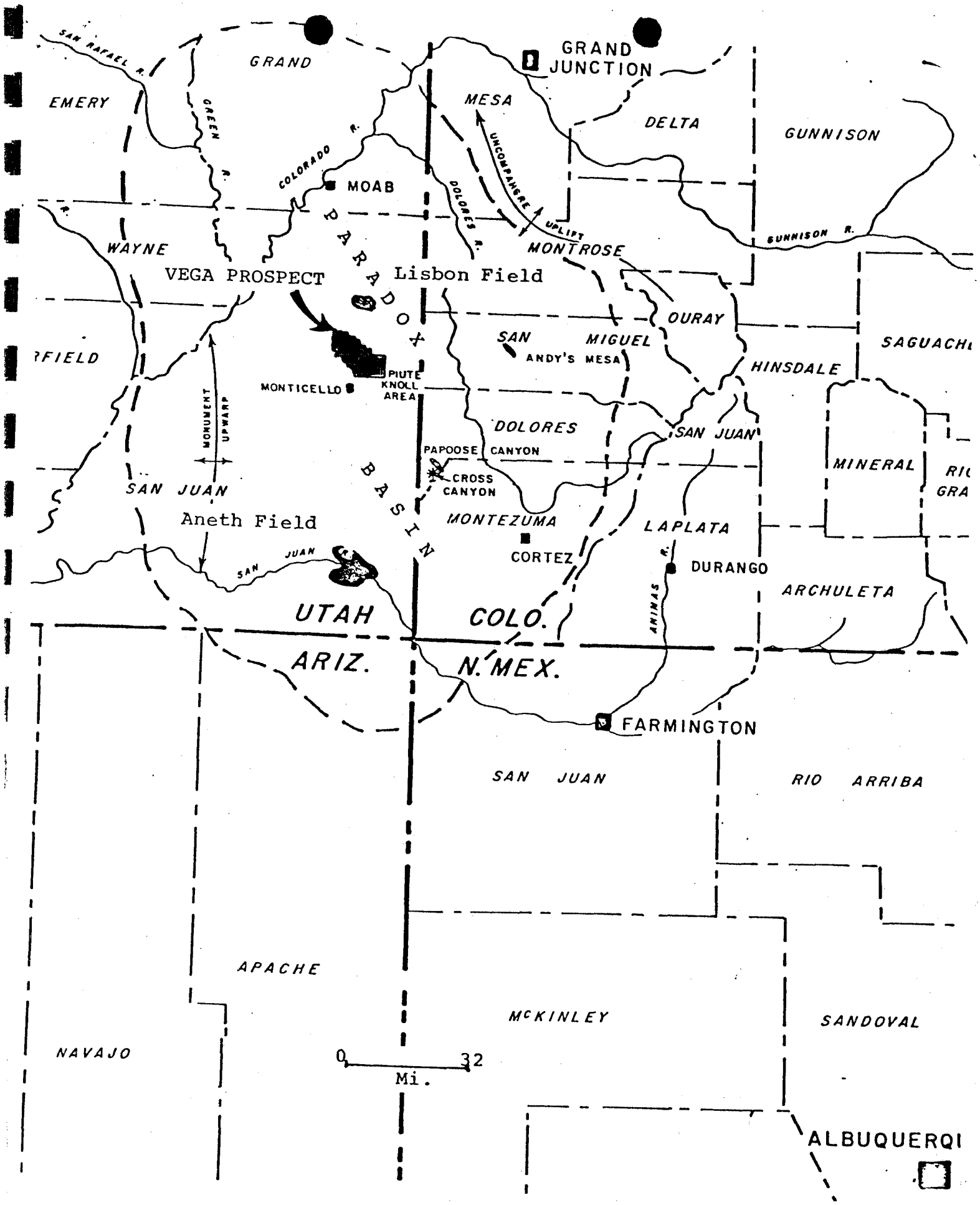
SEAL

Registered Land Surveyor.
#3950

SURVEYED April 24, 1980

Figure 1

FARMINGTON, N. M.



Index Map Southeast Utah

Figure 2

STRATIGRAPHY

The stratigraphic section penetrated at Nelson 6-11 is discussed in general below. The detail sample descriptions are provided in Appendix 1. Electrical and radioctive characteristics of the section are illustrated on the enclosed logs. Mud logs illustrate the zones of stratigraphic interest where hydrocarbons were detected in the mud system while drilling.

Cretaceous

Dakota Formation - The Dakota Sandstone lies on the surface at the Nelson wellsite underneath a thick layer of surface mantle.

The Dakota consists of light gray, very fine-to fine-grained sandstones and thinly interbedded light gray carbonaceous shales. These sediments were deposited in a transgressive coastal plain depositional environment.

Jurassic

Morrison Formation - Sample top = 240'.

The section encountered by the drill bit consists of varicolored shales, orange-red, red, greenish-gray to green with many mottled colored zones or streaks. These beds are 150 feet thick and were deposited in a fluvial to floodplain environment.

Summerville Formation - Sample top = 390'

This section is approximately 290 feet thick and consists of siltstones with thinly interbedded sandstones. The siltstones are greenish-gray to gray with scattered quartz grains throughout. The sandstones are white, very fine-to fine-grained and well cemented.

Wingate Formation - Sample top = 1,420'

This 300 foot sequence consists of sandstone, white, with various zones of fine-grained and medium to coarse grains and some thinly interbedded varicolored shales. This unit was deposited in an eolian environment.

Chinle Formation - Sample top = 1,720'

This 855 foot sequence consists of interbedded varicolored siltstones, red, gray, to green, with scattered quartz grains and sandstones, white to gray, micaceous, very fine to fine-grained. These sediments were deposited in a fluvial floodplain to lacustrine environment.

Shinarump Formation - Log top = 2,575'

This 70 foot interval consists of shales, purple red, brick red, burnt orange and conglomerates at 2,610 feet consisting of rounded pebbles, siltstones and shales intermixed and traces of limestone. This sequence was probably deposited in a fluvial environment.

Moenkopi Formation - Log top = 2,796'

This unit comprises 74 feet of varigated shales with some thin interbedded sandstones.

Cutler Formation - Log top = 2,870'

A dormantly sandy, red bed section 880 feet thick.

Hermosa Formation - Log top = 3,750'

This interbedded unit of sandstones, orange-red to purple shales and gray dense limestones is feet thick.

Honaker Trail Formation - Log and sample top = 5,625 feet.

Dominantly a carbonate sequence of light brown to tan and light gray limestones. These limestones are predominantly dense and argillaceous. This unit has rare oolitic zones and occasional fossiliferous horizons. Interbedded there are some fine-grained, tight, calcareous sandstones. The unit is feet thick.

Paradox Formation - Log top at 5,351'.

Consists principally of limestones, basinal to neritic types, some cherty limestones, occasional oolitic limestones. Including Ismay and Desert Creek Members to top of the Salt at 6144 feet, the overall unit is 793 feet thick. Members that can be distinguished are:

Upper Ismay - Limestones (139 feet thick) with a log top at 5681 feet continuing downwards and becoming more argillaceous to 5820 feet where a prominent gray-dark gray calcareous shale break occurs. One very porous coral reef zone is present at 5760-5770 feet.

"2nd Shale" - A dark gray calcareous shale 14 feet thick occurs between 5820 and 5834 feet.

Lower Upper Ismay (Piute Knoll Zone)

This zone correlates with the gas producing limestones in the Mountain Fuel Supply Company's Piute Knoll 1 well, Section 26, T. 33 S., R. 26 E., 11 miles southeast of the Nelson 6-11. This unit, topped at 5834 feet is 84 feet thick. It is comprised of light gray limestones, some interbedded white, very fine-grained sandstones, occasional gray shale interbeds and a white anhydrite unit at the top.

Lower Ismay Limestone - Log top at 5986 consists of interbedded white anhydrite and gray, dense, microcrystalline limestone. It has some interbedded white to tan fine-grained sandstone with low porosity. This member is 58 feet thick.

"B" Zone Shale - Log top at 6044 feet. This is a very carbonaceous, black to dark gray shale with high organic content. In the lower part it has a dark gray siltstone unit about ten feet thick.

Desert Creek - This unit has a log top of 6,102 feet. It is confined to only an "upper bench" at the Nelson 6-11. This unit consists of anhydrite and some limestones, brown, ranging from medium to microcrystalline to dense. It is not a good appearing reservoir rock. However, it did provide two good gas shows on the hot wire and chromatograph.

The regional position of the Nelson 6-11 is slightly to the north and east of stratigraphic line of demarcation where the lower bench of the Desert Creek is developed. The upper bench of the Desert Creek is 42 feet thick and the lower bench is absent.

Paradox Salt - At 6,144 feet (log top) the well bore entered salt. Based on drilling time the top of the salt is at 6,147 feet.

STRUCTURE

Figure 3 illustrates the general structural configuration of the Paradox basin in the vicinity of the Nelson 6-11 well. The drilling of the Nelson 6-11 provided no data which would greatly alter the shape of the basin in the subject area.

The formation tops as determined from logs and samples do suggest that the pre-drilling local structure based on seismic work was incorrect with respect to depth determinations. Whether or not local closure around the Nelson 6-11 exists cannot be disproven by one well alone.

Prior to drilling it was t-ought that the Nelson 6-11 would be in excess of 100 feet high to the Byrd-Frost Randall well in Section 23, T. 33 S., R. 24 E., about four miles southeast of the Nelson 6-11. In actual fact the Nelson 6-11 is only about 13 feet higher than the Randall well at the top of the Pennsylvanian "B" Zone shale horizon.

As the principal oil traps in the Nelson 6-11 well are believed to be stratigraphic in nature, the structural configuration of the general area is believed to be favorable (low angle regional tilts; broad terraces, and possible low relief structural closures).

Table 2 is a tabulation of the "B" Zone shale in key wildcat wells in the Paradox basin surrounding the Nelson 6-11 well.

SAMPLE DESCRIPTIONS

Nelson 6-11 (Vega Prospect)
NE SW Section 6, T. 33 S., R. 24 E.
San Juan County, Utah

Interval	Description
0150 - 0180	Siltstone, gray to white with scattered medium quartz grains.
0180 - 0210	Siltstones as above with Sandstones, white to gray, abundant pyrite grains.
0210 - 1240	Sandstones, white, fine to medium grained well cemented.
	Sample Top Morrison Formation - 240'
0240 - 0270	Shale orange-red with some mottled green.
0270 - 0300	Shale as above.
0300 - 0330	Shale, red and greenish-gray.
0330 - 0360	Shale, greenish-gray.
0360 - 0390	Shale, red.
	Sample Top Summerville Formation - 390'
0390 - 0420	Siltstone, greenish-gray, scattered quartz grains.
0420 - 0450	Siltstone as above.
0450 - 0480	Siltstone as above, Shale red.
0480 - 0510	Siltstone as above.
0510 - 0540	Siltstone as above.
0540 - 0570	Siltstone as above.
0570 - 0600	Siltstones as above with Sandstone white, well cemented.
0600 - 0610	Siltstone-Sandstone as above.
0610 - 0620	Siltstone as above.
0620 - 0630	Siltstone red, sandy streaks with Sandstones as above.
0630 - 0640	Siltstone as above.

Interval	Description
0640 - 0650	Siltstone, red, gray, green, mottled chips.
0650 - 0660	Siltstone, greenish-gray.
0660 - 0670	Siltstone as above, sandy streaks.
0670 - 0680	Siltstone, Sandstone, gray to white, fine grained, well cemented.
	Sample Top Curtis Formation - 680'
0680 - 0690	Siltstone white, fine grained, well cemented.
0690 - 0700	Sandstone as above.
0700 - 0710	Sandstone white, fine to medium grained, well cemented good P & P.
0710 - 0720	Sandstone as above.
0720 - 0730	Siltstone gray to green to red, sandy streaks.
0730 - 0740	Siltstone as above.
0740 - 0750	Siltstone as above.
0750 - 0760	Siltstone as above, Shale red.
	Sample Top Entrada Formation - 760'
0760 - 0770	Sandstone, white, fine to medium grained, well cemented.
0770 - 0780	Sandstone as above.
0780 - 0790	Shale, red, Siltstones, gray, green, red.
0790 - 0800	Shale and Siltstones as above.
0800 - 0810	Sandstones, white, very fine grained, well cemented.
0810 - 0820	Siltstone, mottled red and green.
0820 - 0830	Siltstone as above, some Sandstones as above.
0830 - 0840	Siltstone as above.
0840 - 0850	Siltstone as above, trace Sandstones as above.
0850 - 0860	Siltstones as above.

Interval	Description
0860 - 0870	Siltstones as above.
0870 - 0880	Siltstones as above.
0880 - 0890	Siltstones as above, mainly red.
0890 - 0900	Siltstone as above, mainly red.
0900 - 0910	Sandstones, white, fine grained, well cemented, Siltstone, brick red.
0910 - 0920	As Above.
0920 - 0930	As Above.
0930 - 0940	As Above.
0940 - 0950	Sandstone, white fine grained, well cemented.
	Sample Top Carmel Formation - 950'
0950 - 0960	Siltstone, brick red, sandy streaks, Shale, red.
0960 - 0970	Siltstone as above.
0970 - 0980	Siltstone as above.
0980 - 0990	Siltstone as above with mottled greenish gray spots.
0990 - 1000	Siltstone as above.
1000 - 1010	Siltstone as above.
1010 - 1020	Siltstone as above.
1020 - 1030	Siltstones varicolored and Sandstones, white, very fine grained.
1030 - 1040	Siltstone, brick red, sandy streaks.
1040 - 1050	Siltstone as above.
1050 - 1060	Siltstone as above.
	Sample Top Navajo Formation - 1,065'
1060 - 1080	Sandstone, white, very fine grained, well cemented, as above, sub-angular to sub-rounded.
1080 - 1090	Sandstone as above.

Interval	Description
1090 - 1100	Sandstone as above, becoming fine to medium grained.
1100 - 1110	Sandstone as above.
1110 - 1120	Sandstone as above becoming medium grained.
1120 - 1130	Sandstone as above.
1130 - 1140	Sandstone as above.
1140 - 1150	Sandstone as above.
1150 - 1160	Sandstone as above.
1160 - 1170	Sandstone as above.
1170 - 1180	Sandstone as above.
1180 - 1190	Sandstone as above.
1190 - 1200	Sandstone as above.
1200 - 1210	Sandstone as above.
1210 - 1220	Sandstone as above.
	Sample Top Kayenta Formation - 1,220'
1220 - 1230	Siltstone brick red, Shale, purple-red.
1230 - 1240	Siltstone as above.
1240 - 1250	Siltstone as above.
1250 - 1260	Siltstone as above sandy streaks.
1260 - 1270	Siltstone as above.
1270 - 1280	Siltstone as above.
1280 - 1290	Siltstone as above, Sandstones, white very fine to fine grained, well cemented.
1290 - 1300	Sandstones as above.
1300 - 1310	Sandstone as above, rose to red in color.
1310 - 1320	Sandstone as at 1290'.
1320 - 1330	Sandstone as above.

Interval	Description
1330 - 1340	Sandstone as above.
1340 - 1350	Sandstone as above.
1350 - 1360	Sandstone as above, Shale red, Siltstone brick red.
1360 - 1370	Sandstone white, very fine grained, well cemented.
1370 - 1380	Sandstone as above.
1380 - 1390	Sandstone as above, trace Siltstones vari-colored.
1390 - 1400	Shales-Siltstone vari-colored.
1400 - 1410	Sandstone, white, very fine grained, well cemented.
1410 - 1420	Siltstone, varicolored and mottled, trace Sandstone.
	Sample Top Wingate Formation - 1,420'
1420 - 1430	Sandstone, white, very fine grained, well cemented.
1430 - 1440	Sandstone as above.
1440 - 1450	Sandstone as above, some zones medium to coarse grained.
1450 - 1460	Sandstone as above.
1460 - 1470	Sandstone as above.
1470 - 1480	Sandstone as above.
1480 - 1490	Sandstone as above with varicolored Shales.
1490 - 1500	Sandstone as above with varicolored Shales.
1500 - 1510	Sandstones, white, fine grained, cemented, some P & P, Shale, orange-red, Siltstone, pale green to gray, as above.
1510 - 1520	As Above.
1520 - 1530	Sandstones, white, very fine to fine grained, cemented, good P & P, sub-angular to sub-rounded.
1530 - 1540	Sandstone as above.
1540 - 1550	Sandstone as above.
1550 - 1560	Sandstone as above.

Interval	Description
1560 - 1570	Sandstone as above, some red chips.
1570 - 1580	Sandstone as above.
1580 - 1590	Sandstone as above.
1590 - 1600	Sandstone as above.
1600 - 1610	Sandstone as above, scattered medium grains.
1610 - 1620	Sandstone as above.
1620 - 1630	Sandstone as above.
1630 - 1640	Sandstone as above with Siltstone, mottled purple, green, gray.
1640 - 1650	Sandstone as above.
1650 - 1660	Sandstone as above with some Siltstone as above.
1660 - 1670	Sandstone as above, some reddish colored.
1670 - 1680	Sandstone as above, Siltstones as above with quartz grains.
1680 - 1690	Sandstone as above, few quartzitic streaks.
1690 - 1700	Sandstone as above.
1700 - 1710	Sandstone as above.
1710 - 1720	Sandstone as above, glauconitic grains.
	Sample Top Chinle Formation - 1,720'
1720 - 1730	Siltstone, red, green, gray, scattered quartz grains.
1730 - 1740	Siltstones as above, Sandstone, gray, fine grained, well cemented.
1740 - 1750	Sandstone as above, micaceous.
1750 - 1760	Sandstone as above.
1760 - 1770	Sandstone as above with silty mottled balls.
1770 - 1780	Sandstone as above.
1780 - 1790	Sandstone white to rose-red, fine to medium grained silty balls randomly scattered, well cemented, with Siltstones, red to green, sandy streaks.

Interval	Description
1790 - 1800	Sandstone as above.
1800 - 1810	Sandstone as above.
1810 - 1820	Sandstone as above.
1820 - 1830	Sandstone white, rose-red, fine to coarse grained, well cemented.
1830 - 1840	Sandstone as above, Siltstone, gray, grayish green.
1840 - 1850	Sandstone-Siltstone as above, predominantly red.
1850 - 1860	As Above.
1860 - 1870	Siltstone brick red, mottled gray spots.
1870 - 1880	Siltstone as above, trace Sandstone.
1880 - 1890	Siltstone as above.
1890 - 1900	Siltstone as above, Sandstone, white, rose, brick red very fine grained, well cemented.
1900 - 1910	As Above.
1910 - 1920	As Above.
1920 - 1930	Sandstone-Siltstones as above.
1930 - 1940	Sandstone as above.
1940 - 1950	Sandstone as above.
1950 - 1960	Sandstone as above.
1960 - 1970	Sandstone white, as above, Siltstone, purple.
1970 - 1980	Sandstone, white, very fine grained well cemented.
1980 - 1990	Sandstone as above.
1990 - 2000	Sandstone as above.
2000 - 2010	Sandstone as above.
2010 - 2020	Sandstone as above.
2020 - 2030	Sandstone as above, some becoming rose to brick red.
2030 - 2040	Sandstone as above.
2040 - 2050	Sandstone as above, Siltstones varicolored.

Interval	Description
2050 - 2060	Sandstones, varicolored Siltstones, Shale red, purple.
2060 - 2070	Sandstones, white, rose, red, very fine grained well cemented, minor Siltstones as above.
2070 - 2080	As above.
2080 - 2090	As above.
2090 - 2100	As above.
2100 - 2110	Sandstone white to rose, very fine grained, well cemented.
2110 - 2120	As above.
2120 - 2130	As above.
2130 - 2140	As above.
2140 - 2150	As above with varicolored Shales and Siltstones.
2150 - 2160	As above.
2160 - 2170	As above.
2170 - 2180	As above.
2180 - 2190	As above.
2190 - 2200	Sandstone, brick red, very fine grained, well cemented Shale, purple, brick red, green, Siltstone, red.
2200 - 2210	As above.
2210 - 2220	As above.
2220 - 2230	As above.
2230 - 2240	As above.
2240 - 2250	Siltstone, brick red, calcareous.
2250 - 2260	Siltstone as above, Shale, brick red, calcareous.
2260 - 2270	Siltstone-Shale as above, Shale greenish-gray mottled.
2270 - 2280	Siltstone-Shale as above.
2280 - 2290	Shale-Siltstone as above, trace Limestone, gray, finely crystalline.

Interval	Description
2290 - 2300	Shale-Siltstone as above.
2300 - 2310	Shale-Siltstone as above, mottling of greenish-gray increasing.
2310 - 2320	Shale-Siltstone as above.
2320 - 2330	Shale brick red and greenish-grah mottled, calcareous red dominant.
2330 - 2340	Shale as above.
2340 - 2350	Shale as above.
2350 - 2360	Shale as above, some purplish, red, calcareous.
2360 - 2370	Shale as above, Limestone, brick red, to greenish red mottled finely crystalline.
2370 - 2380	Shale as above, very calcareous.
2380 - 2390	Shale-Limestone inclusions intercalated as above.
2390 - 2400	Shale as above, mottled greenish-gray spots, calcareous.
2400 - 2410	Shale as above.
2410 - 2420	Shale as above.
2420 - 2430	Shale as above.
2430 - 2440	Shale as above.
2440 - 2450	Shale as above.
2450 - 2460	Shale as above.
2460-2470	Shale as above.
2470 - 2480	Shale as above.
2480 - 2490	Shale as above.
2490 - 2500	Shale as above.
2500 - 2510	Shale as above.
2510 - 2520	Shale as above.
2520 - 2530	Shale as above.
2530 - 2540	Shale as above.

Interval	Description
2540 - 2550	Shale as above.
2550 - 2560	Shale as above.
	Sample Top Shinarump Formation 2,560'
2560 - 2570	Shale, purple-gray, brick red, burnt orange, interbedded.
2570 - 2580	Shale as above.
2580 - 2590	Shale as above.
2590 - 2600	Shale as above.
2600 - 2610	Shale as above.
	Formation Tops
2610 - 2620	Conglomerate, rounded pebbles, Siltstone pebbles calcareous with Shales as above.
2620 - 2630	Conglomerates and Shales as above.
2630 - 2640	Shale, brick red, lime green, calcareous trace conglomerate as above.
	Sample Top Moenkopi Formation - 2,630'
2640 - 2650	Shales as above, interbedded.
2650 - 2660	Shales, brick red, lime, gray, purple gray trace limestone, gray finely crystalline.
2660 - 2670	Shales as above trace Limestone.
2670 - 2680	Shales as above ochre color, trace Limestone.
2680 - 2690	Shales as above.
2690 - 2700	Shales as above.
2700 - 2710	Shales as above.
2710 - 2720	Shale, brick red, purple-gray, ochre, gray, calcareous silty streaks.
2720 - 2730	Shales as above.
2730 - 2740	Shales as above Siltstone, purple red, sandy streaks.

Interval	Description
2740 - 2750	Siltstone,purplish-gray, micaceous, sandy streaks, very fine grained, Shale, brick red, ochre, purple, greenish-gray.
2750 - 2760	Siltstone and Shales as above.
2760 - 2770	Siltstone and Shales as above, trace coal, black.
2770 - 2780	Siltstones and Shales as above, Sandstones, gray to red, very fine grained, micaceous, well cemented.
2780 - 2790	Sandstone, gray to greenish-gray to rose to red, very fine grained, well cemented, glauconitic, abundant dark minerals, some Siltstones as above.
2790 - 2800	Sandstones as above.
2800 - 2810	Sandstones and Siltstone as above.
2810 - 2820	Sandstones-Siltstones as above.
2820 - 2830	Sandstones-Siltstones-Shales as above.

Underwood Logging Unit arived on location to handle sample description (see Mud Log for interval 2830 to 4210 feet)

Resume Operations

January 26, 1981 at 4210 feet with larger rig. Sample descriptions by E. F. Durkee; mud logging by Rocky Mountain Geo Engineering Company (See Mud Log)

SAMPLE DESCRIPTION
Nelson 6-11 Well, NE SW Section 6-T33S-R24E
San Juan County, Utah
E. F. Durkee

4300 - 4310	SH, RD-RD-BN, F-TEXT-SILTY, MIC, CALC, SE SH, GY, F-TEXT.
4310 - 4320	A.A.
4320 - 4340	A.A.
4340 - 4350	SS, WH, RD-WH, F-GN, S-ANG, CALC, ARGIL.
4350 - 4360	A.A., W/SE SLTS - VFGN SS, WH, RIGHT, TR. LST, GY, DS-VF XLN.
4360 - 4370	SH, RD-RD BN, DS, W/TR SS & SLTS. A.A., SE LST, FRAGS (V. RARE) AND TR SH, LAVENDER, DS.
4370 - 4380	SS, RD-SH, F-GN, S-ANG, V. ARGIL.
4380 - 4390	SH, RD-RD-BN, F-TEXT.
4390 - 4400	A.A. TR, SIL, F-GN SS, TIGHT.
4400 - 4410	A.A.
4410 - 4420	A.A. R. STRK LS, GY, DS.
4420 - 4430	SH, RD-BN, SILTY TO CLAYEY.
4430 - 4440	A.A. TR. SLIST, WH, DS, TIGHT.
4440 - 4450	SLIST, ARK, TWO TYPES - RD BN & LAVENDER TR LST, LT BN, DS, M-XLN.
4450 - 4460	LST LT-BN, DS, MIL-XLN, W/SLIST. A.A.
4460 - 4470	SLIST, RD BN, W/TR LST. A.A.
4470 - 4480	SLIST - SH, RD-BN, INTBDD SLTS & LST, A.A., TR SS, RD VF-GN, ARGIL - CIRC SAMPLER OUT @ 4491'.
4490 - 4500	SS, RD-BN, VF-FRN, ARGIL W/TR LST, BN, OOLITIC, W/ SLIST. A.A.

4500 - 4530	SS, WH, F-M-GRN, S-ANG, CALC, GEN. TIGHT, SL POROSITY, NSOG, OCC LGE GRNS QTZ.
4530 - 4540	SLIST, ARK, RD-BN, W/INTBDD RD-BN SH.
4540 - 4550	A.A., W/SH, RD-BN.
4550 - 4560	A.A., RARE STRK LST, RD-BN, DS, TIGHT.
4560 - 4570	A.A.
4570 - 4600	A.A. RD-BN - BRICK FACTORY A.A.
4600 - 4610	A.A. w/ SS, WH, RD-WH, F-GN (Circulate samples @ 4608', NSOG).
4610 - 4620	A.A. TR SS, WH, F-GN, CALC, TIGHT. (Change from dominant reds to gray appearance of lithologic samples)
4620 - 4630	SS, GY-GY-WH, F-GN, S-RDD - S-ANG, ARK IN PT. CALC. (Drilling break 4601-4628', 1 to 1-1/2'/ft.) NSOG. (4625', Top Honaker Trail Formation)
4630 - 4640	A.A. W/GY, ARGIL, SLTST.
4640 - 4650	LST, GY, GY-BN, DS-MIC-XLN, TIGHT.
4650 - 4660	A.A., OCC STRKS INTBDD BRICK RED SHS.
4660 - 4670	A.A. - W/TR ARK SS, RD, SIL, TIGHT. W/SE LST, WH, DS.
4670 - 4700	A.A. W/SE SLTST, GY, TIGHT.
4700 - 4710	SLTST, WH, V. CALC, TIGHT.
4710 - 4720	A.A. W/INTBDD DK-BN, LST. DS, SE F-XLN.
4720 - 4740	A.A.
4740 - 4750	LST, GY-BN AND WH, INTBDD, DS-MIC-XLN.
4750 - 4760	A.A.
4760 - 4770	A.A. TR CHT, BN.
4770 - 4790	A.A.

4790 - 4800 A.A. W/SLTST, GY, AND SH, DK-GY-BLK, TR SS MIC. SS (muscovite)

4800 - 4810 LST, LT-GY - BN, DS-MIC-XLN, W/TR CHT. DK-BN TO TRANSL: TR SLTST, WH, CALC, TIGHT.

4810 - 4820 A.A.

4820 - 4840 A.A., TR SLTST, GN-GY, TIGHT.

4850 - 4860 LST, A.A. W/TR SS, WH, GY-WH, F-VFGN, S-ANG, CALC, TIGHT.

4860 - 4870 A.A.

4870 - 4880 LST, OOLITIC, LT-BN, LEACHED, POROUS DRILLED OFF, CIRCULATE OUT, NSOG.

4880 - 4890 LST, GY-BN, DS, M-XLN, W/TR LST, OOLITIC.

4890 - 4900 LST. A.A.

4900 - 4910 LST, GY, GY-BN, DS, MIC-XLN, TIGHT W/SLTST, GY, WH, CALCAR, TIGHT.

4910 - 4920 SLTST, WH, GY-WH, CALC, TIGHT.

4920 - 4930 SLTST, A.A.

4930 - 4940 LST, GY-WH, LT-BN, DS, MIC-XLN, TIGHT.

4940 - 4950 A.A.

4950 - 4960 A.A.

4960 - 4970 A.A.

4970 - 4980 A.A.

4980 - 4990 A.A., Poor sample.

4990 - 5000 LST, GY, GY-WH, LT-BN, DS, M-XLN, TIGHT W/INTBDD SLTST, BN-WH, TIGHT. W/TR DK RD-BN SH, F-TEXT, SMOOTH.

5000 - 5010 SLTST, BN TO RD-BN W/SH, ORANGE-RD, SMOOTH.

5010 - 5020 SLTST, WH - GY-WH, CALCAR, TIGHT.

5020 - 5030	LST, WH, DS, MIC-XLN. W/TR SLTST, CN.
5030 - 5050	A.A.
5050 - 5060	LST, WH-LT TAN, DS
5060 - 5070	A.A., TR SS, WH, F-M-GN, S-ANG-SRDD, LOW POROSITY, NO SHOW.
5070 - 5080	LST. A.A., TR SLTST, DK-BN.
5080 - 5090	INTBDD LST, LT-TAN AND SLTY SH, GY, GY-BN
5090 - 5110	A.A.
5110 - 5120	SH, SLTY SH, GY, SLT MIC, F-TEXT.
5120 - 5130	LST, A.A., W/SH A.A.
5130 - 5140	LST, LT TAN - DK BN - GY-BN, F-XLN - M-XLN, TR SLTY, MIC SH & R. SS, WH-F-GN, S-ANG.
5140 - 5150	LST, KD-GY, ARGIL, TR LST, LT TAN, DS - M-XLN.
5150 - 5160	LST, DK-GY, SLTY, ARGIL, DS-M-XLN.
5160 - 5170	LST, LT-TAN, DS-M-XLN, TR LST, GY, A.A.
5170 - 5180	LST, GY, DK-GY, SLTY-TEXT, ARGIL AS IN 50-60.
5180 - 5190	LST. GY, GY-BN, SLTY.
5190 - 5200	SLTST, LT-GY-WH, TO VF-GN SS, WH, TIGHT, GLAUC.
5200 - 5210	A.A. W/LST, TAN, FOSSIL, OOL.
5210 - 5220	LST, GY, AND LT-GY, M-XLN, OOL, FOSSIL, TO DK-GY, ARGIL.
5220 - 5230	A.A.
5230 - 5240	LST, GY - DK-GY, ARGIL, DS-MIC-XLN
5240 - 5300	A.A.
5300 - 5310	A.A.
5310 - 5320	A.A., TR SS, WH, F-BN, S-ANG, GLAUC, TIGHT.
5320 - 5330	A.A. SE LST, GY-WH, M-XLN, PYR.
5330 - 5340	LST, GY, DK-GY, ARGIL. W/MUCH SS, A.A.

5340 - 5350 A.A.

5350 - 5360 A.A. INCR IN SS, GN-WH, F-GN: Drilling break from 10'/ft. to 3'-5'/ft; gas kick at this level (5358-66') of 130 units. Total gas; 550 ppm Methane.

5360 - 5370 LST, LT-TAN, MIC-XLN, FOSSIL, TR OOL.

5370 - 5380 A.A. TR SH, LT-GY, CALCAR.

5380 - 5390 A.A. TR CHT, LT TAN, TRANSL.

5390 - 5400 LST, DK-GY, F-TEXT, MIC-XLN.

5400 - 5410 A.A., TR CHT.

5410 - 5420 LST, DK GY W/LST, LT-TAN A.A.

5420 - 5430 A.A.

5430 - 5440 LST, LT TAN A.A. W/SL LST, DK-GY, ARGIL.

5440 - 5450 A.A., FOSS SHELL FRAGS COMMON.

5450 - 5470 A.A., TR CHT, LT TAN, TRANSL.

5470 - 5500 A.A.

5500 - 5510 LST, LT-TAN, W/INCR AMT. LST, DK-GY, ARGIL.

5510 - 5520 A.A. W/TR SLTST, LT-GY, GY, DS.

5520 - 5530 A.A.

5530 - 5540 A.A. W/SL SH, DK-GY, CALC, LST OCC. OOL.

5540 - 5550 A.A., M GY, DK GY, LST, DS.

5550 - 5560 A.A.

5560 - 5570 A.A. W/LST, LT TAN, OOL., TR SLTST, WH, CALC, TIGHT.

5570 - 5580 LST, A.A., SL CHT, TAN, TRANSL., SL OOL. LST.

5580 - 5590* A.A., W/SLTST, GY-TAN, CALC TIGHT TR LST W/PINPOINT POROSITY; NSOG IN SAMPLES.

5590 - 5600 LST, A.A.

* Gas show from Drilling break at 5584-85' & 5586-87 = 70 units total gas; 1612 ppm C_1, 523 ppm C_2, 125 ppm C_3.

5600 - 5610 LST, GY, BN, DS-MIC-XLN, TR CHT, BN, TRANSL.

5610 - 5630 A.A.

5630 - 5640 A.A. Becoming SHLY, ARGIL.

5640 - 5650 SH, GY, CALCAR GRADING TO ARGIL LST.

5650 - 5660 A.A. W/INCR SLTST, TAN, CALC, TIGHT.

5660 - 5670 SLTST, TAN, CALCAR, W/SL SH, GY, & ARGIL LST., DS AND LST, TAN DS.

5670 - 5680 SLTST, GY, DK GY, W/TR LSTS A.A.

5680 - 5690 A.A.

* Gas show @ 5697'; total units 32 (C_1, C_2, C_3)

* Gas show @ 5707'; total units 54 (C_1-C_5)

5690 - 5700 LST, GY-BLK, DS, ARGIL, SL INTBDD LST, TAN, DS.

5700 - 5710 A.A. TR. DK-GY SH, SMOOTH-TEXT.

5710 - 5720 SLTST, GY, ARGIL, TIGHT, W/SL LSTS A.A.

5720 - 5730 SH, GY, DK-GY, SILTY-TEXT W/TR LSTS, A.A., SE ARR OOL.

5730 - 5740 LST, TAN, LT-BN, DS, W/ABUND. CHT, LT-TAN, TRANSL.

5740 - 5750 LST, A.A., NOTEABLE DECREASE IN DK GY SH-SILTST AND ARGIL LST, SL CHT. A.A.

5750 - 5760 LST, LT TAN, LT BN, DS, MIC-XLN; TR CHT, TAN.

5760 - 5770 LST, LT TAN W/ABUND. FOSSIL DEBRIS CORAL HASH, SL OPEN LATICE WORK GIVES LT PALE YELLOW CUT; VERY WEAK BUT @ 5763-64' gas kick w/120 total units; C_1 through C_5.

5770 - 5780 LST, BN, LT BN, DS, & TR GY SH.

5780 - 5790 SH, GY, DK GY, CALC, W/TR LST. A.A.

5790 - 5800 SH, A.A.

5800 - 5830 A.A.

5830 - 5840	SH. A.A. W/ANHY, WH, MICRO SUCROSIC TEXT.
5840 - 5850	A.A.
5850 - 5860	SH, GY BLK W/SLTST - VF-GRN SS, GY, SLI CALC - DOL, TIGHT W/LST, LT-GY, F-XLN.
5860 - 5870	LST, GY, LT-TAN, VF XLN, SE RE-XTAL LST, M-XLN, WH, TR CALC SLTST, A. ABOVE.
5880 - 5900	LST, LT TAN, WH, BUFF, F-M-XLN, VF CUT & LIGHT FLUOR. (TR of this type LST) - TAN. LST, GY, GY-BN, F-XLN-DS, TIGHT.
5900 - 5910	SH, DK-GY, W/SL TR LST'S A.A.*
5910 - 5920	LST, LT TAN, WH, DS, TIGHT.
	* Gas show at 02-04.
5920 - 5930	SH, GY-BLK, F-TEXT, SLI CALC W/ STKS LST, TAN, DS.
5930 - 5950	A.A.
5950 - 5960	A.A. & GAS SHOW @ 5954-64'.
5960 - 5980	A.A.; Gas show @ 5960-70'.
5980 - 6000	A.A. W/TR ANHY (in 90-6000 sample), WH, AND LST, GY, F-XLN; Gas show at 5975-78'.
6000 - 6010	ANHY, WH, MIC-F-SUC. TEXT W/SE LST, GY, DS, MIC-XLN, TIGHT;TR SS, TAN-WH, F-GN, S-RDD-S-ANG, POROUS; TR SLTST, GY, CALC, TIGHT.
6010 - 6050	SH, DK BLK, SE SILTY.
6050 - 6095	SH, GY-BLK, DK BLK, A.A.
6095 - 6100	SLTST, GY, DK-GY, V. CALC, SFT.
6100 - 6105	A.A. GRADING TO LST, GY, DS, TIGHT
6105 - 6109	A.A. W/ANHYDRITE, WH, F-SUC TEXT (Top Desert Creek & circulate).
6110 - 6115	ANHY, WH, LT-GY, SE W/SPOTTY DEAD OIL STN & NO CUT OR FLUOR

6115 - 6120	SH, GRY, DK GY, TR ANHY A.A. W/SE LST, BN, M-XLN, AND SE DS-MICRO-XLN.
6120 - 6125	A.A., TR LST, LT BN-BN, DS.
6125 - 6130	LST, BN, LT-BN, DS-MIC-XLN, Gas show at 6127-28' -- 125 units C_1-C_3 & C_5.
6130 - 6135	A.A.
6135 - 6140	LST, BN, DS, A.A.
6140 - 6145	A.A.
6145 - 6150	(little sample) - good drilling break at 6147' (2'/ft). Circulate out at 6153' - chlorides increased from 825 @ 12:25 to 5100 ppm at 12:35; TR SALT, Clear, Translucent, F-XLN.

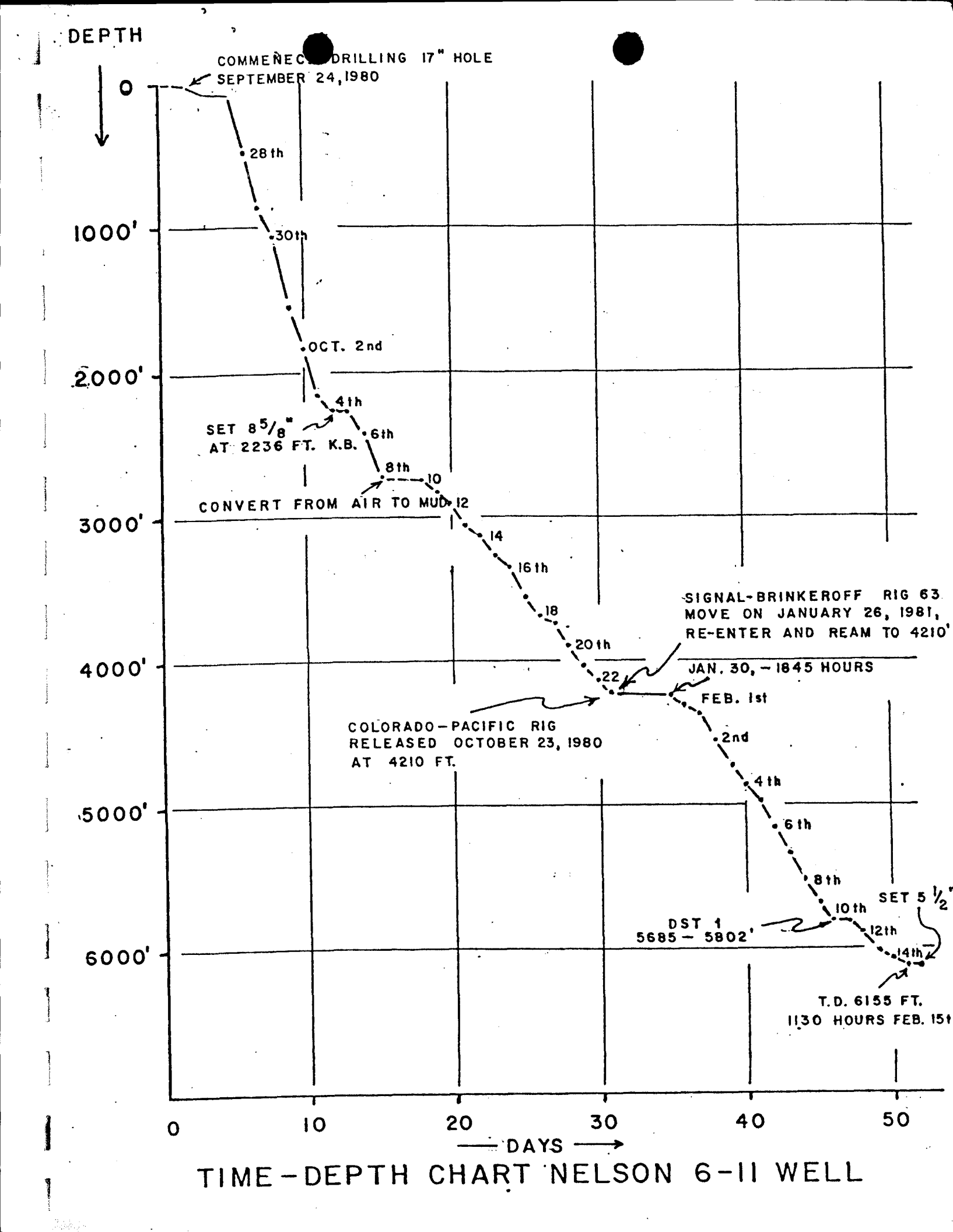
Total Depth 6155'

Final Geological Report
Nelson 6-11 Well
NE SW Section 6, T. 33 S., R. 24 E.
San Juan County, Utah

For
Mountain States Resources, Inc.
Monte Grande Exploration, Inc.
Cut Bank, Montana

February 27, 1981

By
Worldwide Exploration Consultants, Inc.
Suite 3365 Anaconda Tower
Denver, Colorado
80202



TIME-DEPTH CHART NELSON 6-11 WELL

DAILY WELL REPORT

Nelson 6-11 (Vega Prospect)

LOCATION: NE SW Section 6, T. 33 S., R. 24 E.
San Juan County, Utah

GR - 6915'
KB - 6925' (Colorado Pacific Rig 1)
KB - 6926' (Signal-Brinkerhoff Rig 63)
TD - 6000'

Report To: Weekly report to Mountain Fuel Supply Company,
300 West Arrington Street, Farmington, New Mexico 87401.

Sept. 22 - Move dry hole digger from Moab, Utah. Spud well, drilling 10' of 17" hole.

Sept. 23 - Dry hole digger broke down. Moved off location and back to Moab. Finished rigging up drilling rig.
Contractor - Colorado Pacific Drilling Company (CPD)
Rig #1 National T20.
Pump FXK 7-1/4 x 14".
Drill pipe 5000' 3½ IF, 6000' 2-7/8 IF.
16 5-3/4" drill collars

Sept. 24 - Finished rigging up, moved rig in from Delta, Colorado. Commenced drilling 17" surface hole.

Sept. 25 - Depth 40', made 30 ' of new 15½" hole.
Bit #1 HTC OSC, AA503 made 30' in 10 hours.

Sept. 26 - 2nd day of operations.
Depth 50', made 10' in 24 hours. WOC on conductor pipe.
Bit #1 SB 15" HTC OSC in at 10', out at 50', made 40' in 14 hours. Drilled surface hole with air.
Encountered surface waters at 15'. Three compressors on hole. Mixed 7 gallons of stiff foam, 10 gallons baroid foamer. One 5 gallon can SH12L.
Set conductor pipe with 4 yards (1000# cement) from Monticello containing 3% CaCl.
Remarks: Presently WOC on conductor and drilling rat and mouse hole. Will WOC 8 hours and nipple up air package for drilling 12¼" hole.
24 hour summary: 14 drilling conductor hole
1½ Ran 1 jt of conductor pipe
3½ Reamed hole
2½ Mixed cement and cemented conductor pipe.
2½ WOC and drilled rat and mouse hole
Ran 1 jt of 13-5/8" 40# J55 conductor pipe.
Overall 40.42', landed at 50'KB.

Sept. 27 - 3rd day or operations.
Depth 54', made 4' in 24 hours. Drilling 12-1/4" hole under conductor pipe.
Bit #2 SB 12-1/4" STC 2JS. Open, no jets (button bit) in at 48', made 6' in 1-1/2 hours.
Drill string - Kelly and one 5-3/4" drill collar.
One 6-3/4" air hammer.
Three compressors on hole.
Mixed two 5 gallon corrosion inhibitor, 10 gallons baroid foam (soap).
24 hour summary:

5-1/2	WOC and drilled rat and mouse hole.
2-3/4	Nippled up cellar and rotating head.
1-3/4	Nippled up Grant rotating head and changing head.
6-1/2	Repair rotary table and change out table.
1-1/2	Repair draw works chain
4-1/2	Nippling up compressor
1-1/2	Drilling surface hole under conductor pipe.

Sept. 28 - 4th day of operations.
Depth 450', amde 4-0' in 24 hours.
Drilling 12-1/4" surface hole.
Bit #2 SB 12-1/4" 2JS. Open, no jets (button bit) in at 50', still in, made 400' in 20-1/4 hours.
Drill string 20,000#, 10,000# on bit, 30-40 RPM.
Twelve 5-3/4" drill collars plus one 6-3/4" air hammer.
Three compressors and one booster.
Dried up hole under conductor pipe and dusted to 78'.
Hole started making water at 78', air mist drilling to 450'. Making 8-10 barrels of water/hour.
Mixed 18 sx potash (KCL), two 5 gallon corrosion inhibitor, one 55 gallon foam.
24 hour summary:

22	drilling
3/4	rig service
1-1/4	work on light plant

Sept. 29 - 5th day of operations.
Depth 861', made 411' in 24 hours. Drilling 12-1/4" surface hole.
Bit #2 SB 12-1/4" STC 2JS, open (button bit) in at 50', still in, made 811' in 43-1/4 hours.
Drill string 26,000#, 10,000# on bit, 30 RPM.
Twelve 5-3/4" OD and 2-1/4" ID drill collars.
One 6-3/4" air hammer. Total of 412'.
Four compressors and one booster on line. 375# air pressure.

Sept. 29 (cont.) - Lifting 35-40 bw/hour.
Mixed one 50 gallon soap, 1400# (28 sx potash KCL)
24 hour summary: 23 drilling
3/4 rig service
1/2 work on air compressors

Sept. 30 - 6th day of operations.
Depth 1073', amde 212' in 24 hours. Drilling 12-1/4" surface hole.
Bit #2 SB 12-1/2" STC 2JS in at 48', still in, made 1025' in 66-1/4 hours.
Drill string 26,000#, 10,000# on bit, 34 RPM.
Twelve drill collars and an air hammer. Air pressure 300#.
Survey: 935' - 3/4 degree
On line 4 compressors, 1 booster, lifting 40 bw/hour.
Mixed 31 sx potach (KCL), 2 barrels of soap, one 5 gallon corrosion inhibitor.
24 hour summary: 23 drilling
3/4 rig service
1/3 survey
Remarks: 8-5/8" surface pipe on location.

Oct. 1 - 7th day of operations.
Depth 1584', made 511' in 24 hours. Drilling 12-1/4" surface hole.
Bit #2 SB 12-1/4" STC 2JS in at 48', still in, made 1536' in 89-1/2 hours.
Drill string 33,000#, 10,000# on bit, 35 RPM.
Twelve 5-3/4" drill collars = 366', one 6" air hammer = 6.18', two XO subs = 365', total 366'.
Four compressors, one booster on line. 310# air pressure, lifting 75 bw/hour.
Survey: 1584' - 1 degree
Mixed two barrels (110 gallons) soap, 20 sx potash (KCL), one 5 gallon corrosion inhibitor.
24 hour summary: 23 drilling
1/4 Rig service
3/4 Survey

Oct. 2 - 8th day of operations.
Depth 1839', made 242' in 24 hours. Drilling 12-1/4" surface hole.
Bit #2 SB 12-1/4" 2JS (button bit) in at 48', out at 1642', made 1594' in 92-1/2 hours (bald).
Bit #3 SB 12-1/4" STC 2JS (button bit) in at 1642, still in at 1839', made 191' in 16-1/2 hours.
Drill string 34,000#, 10,000# on bit, RPM 36.
Twelve 5-3/4" drill collars and air hammer = 366'.
24 stands drill pipe.

Oct. 2 (cont.) - Four compressors, one booster, 375# air pressure.
Mixed 10 sx gel, four 55 gallon soap, one 5 gallon corrosion inhibitor 1350# KCL.
Remarks: Presently drilling with stiff foam, vis 42, lifting 100 bw/hour.
24 hour summary: 19-1/2 drilling
1/2 unload hole after trip with bit #3.
3/4 rig service
1/2 survey
Survey: 1613' - 3/4 degree

Oct. 3 - 9th day of operations.
Depth 2184', made 345' in 24 hours. Drilling 12-1/4" surface hole with #3 bit.
#3 Bit SB 12-1/4" STC 2JS (botton bit) in at 1642, still in, made 536' in 38 hours (still drilling 2-3 min/ft.
Drill string 35,000#, 15,000# on bit, RPM 38.
Bottom hole assembly twelve 5-3/4" drill collars and air hammer = 366'.
Four compressors and one booster, air pressure 425# while drilling, 575# to unload hole after connections.
Drilling with stiff foam, vis 42.
Mixed 10 sx gel, one 5 gallon SH1200L, four 55 gallon soap, 700# KCL, two 5 gallon corrosion inhibitor.
24 hour summary: 20 drilling
3/4 rig service
1/2 survey
2-3/4 blowing hole after connections
Survey: 1925' - 1/2 degree.
Remarks: Due to increased water flow below 1800', now plan to drill 12-1/4" hole to approximately 2300' and set 8-5/8" surface casing to that depth.

Sat. Oct. 4 7:AM
10th day of operations.
Depth 2242', made 58'in 24 hrs. W.O.C.
Bit #3 SB 12¼" STC @JS in 1642' out 2242' (insert bit) 600' in 43 3/4 hrs.
D/S 35,000#/15,000# RPM - 35-12" X 5 1/4" DC. 366'
Four compressors, one booster , mud pump. 450# Hole pressure.
Mixed two barrels (110) gallons soap,2 B.Corrosion Inhibitor, 15 Sax Gel,(1500#), 20 Sax Potash (1000#)KCL).
24 hour summary: 5 1/2 drilling surface hole
1/2 rig service
2 3/4 short trip and out for casing
4 3/4 rig up and run casing - rig down.
2 3/4 nipple up . BJ and pump. 900 sax 50/50 Pox mix.
11:AM start cement in
12:AM all cement in.
1:AM plug on bottom = mix cement 2% CoC/2.
7:AM woc.

Sun.
Oct.5
7:AM

- 11th day of operations.
Depth 2242 (0) Nipple up. W.O.C. after second surface cement job.
24 hour summary: 3/4 Rig Service,
7 3/4 Nippling up B.O.P.Removing landing joints.
15¼ W.O.C. cement backed of 8 5/8 W/300 additional sax.
24 Hrs.

6;PM B.J. on location 6P/M ordered 300 Sax.
7:PM 150 sax plug: wait one hr.
8:PM 150 sax plug: wait on sax.
9:PM 12 sax cement off top 8 5/8.
10:PM W.O.C. to 6/PM 8 hrs. W.O.C.
6:AM nippling. Sample - top, Dakota 12', Navaho - 1070.

Mon.
Oct.6
7:AM

- 12th day of operations.
Depth 2418' (176) Drilling 7 7/8 = Misting. # at 7995
#1 Bit 7 7/8 = STC = V2HJ in 2242'-SI 2418'
176 ' in 7 1/2 hrs. drilling.
Drill string 43,000/15,000 - TRPM = 45 = 12 X 5 1/4.
D.C. = 366'-Notthammer: 3 X 2" 3.68'
Two compressors and Booster and mist pump.
Two air hands - rotating head = 350#
Mixed: 1 Bbl soap = (W.A.D.) 400# potash (8Sax)= Bariod (W.A.D.), 5 gal. can corrosive inhibitor.(W.A.D.)
Past 24 hrs: 5 hrs.7A/M: 1P/M" Wait on spool. nipple up. B.O.P. Wait on air head.
1P/M to 5P/M: nipple up new air head. Hook up Blower line.
5P?M to 7P/M: Trip in = unload hole test B.O.P.
7;15 to 9.15; 2 hrs. Drilling cement 30' cement in pipe Drill shoe 8⅝/8
9.15 to 11:30 2¼ Blow hole and dry up hole.
11:30 to 7A/M = 7½ drilling with Bit #1- 7 7/8 from 2242' to 2418'.

Tues.
Oct.7
7:AM

13th day operations:
2716')298) past 24 hrs. Tripping for Bit#2.
Bit #1= 7 7/8 STC. V2HJ in 2242' out at 2716'
474' in 18½ (Green)
Bit #2 7 7/8 STC. F-3(V3C 8115) in 2716'
Drill string 48,000/17,000 = 37 stands + 1 single.
12D.C. X 5¼ = 366'- Sub.3.68
Pump: No pump.
Compressors: Three compressors and Booster + mist pump.
Surveys: 2688' = 1/2.
Past 24 hrs. 10 3/4 drilling
3/4 - rig service.
1¼ Blow hole. to attempt to dry up.
1/2/ survey @ 2688'
5 1/4 work stuck pipe @ 2600', 2¼ pullout
1 repair time - 2¼ trip W/#2 Bit.

Wed. Oct.8/80 7:AM

14th day operations:
Depth today 2716' (0)
mixing mud: 8 stands inside pipe.
Bit#1 - 7 7/8 - V2HJ in 2242' out 2716'
474' in 18½ hrs.
Bit #2 - 7 7/8 - STC - F-3 (#3C8115) in @2716'(0-0)
Drill string 36,000/ 37 stands 1 single
12 Drill collars = 366'.
Pump: 4 X 7 triplex- CMC V-871=
Compressors @ 3P/M - Released.
Survey 2688 = ½
Past 24 hrs: 8;AM/2;30PM - 6½hrs. attempt to clean out hole W/air @ 2600
2:30PM-3:30PM
3/4 hr.rig survey
1/2 hr.repair rotary line.
1½ hr. wait on welder
1 hr. tripping
5 hrs. ream and wash hole.
2½ mix mud.
8hrs. wait on truck.
4½ hrs. mixing mud, flowline, wait on water.
3/4 hr. displace hole.
Mud mixed: 4 sodaash, 1 SX CC16, 74 gel, 10 sax Cedar Fibre, Bariod 914.00

Thurs. Oct.9/80 7:AM

15th Day operations.
DEpth today 2716" (0) conditioning.
Depth 2600 - hole-Reaming to old Bottom 2716'
Hole ok to 2600.
8:AM to midnite 1/2 hr. rig survey, 1½hr. tripping into surface pipe. Mixed mud: 49Sax Gel,9 MS., 2 soda ash, 1CC.16 caustic lignite.
4:PM - Rig service
4:15 to 5PM - Reaming up to 2563'
5PM - 5:45PM - Mixed 10 sax gel.
5:45PM to 6:PMCirculate hole,pumped down mud.
6PM to 6:15PM - tighten clutch.
6:15 to *;30PM ream hole.
8;30PM to 9:15PM Mix 10 sax Gel, Visc.55.
9:15 to midnite: Ream to 2563'.
12:AM to 12:15AM R/S. - 12:15 to 12:30AM - Pull 6 stands into surface, - 12:30AM to 2:45AM - Work on mud pump.
2:45AM to 3AM - trip into 2550.
8AM to 3:30AM - Ream hole,- 3:30AM to 3:45AM Pull up 6 joints of casing.
3;45AM to 4:30AM Work on pump. - 4:30AM to 8:AM Ream amd cpndition hole.
Past 24 hrs: 14 hrs. Condition hole
4 hrs; work om pump.
1 hr.tripping
5 hrs. mix mud and chemical.

Friday
Oct.10/80 16th Day operations.
7:AM Depth today 2720' (4') cleaning out to bottom.
Drill 4' Newhole.
Bit#2 - 7 7/8 STC-F-3= (BC 8115) 2716-2720 - 4FC-1 hr.
D/S: 48,000/20,000# RPM-55- 12 Drill Collars-366'
38 stands- even.
Mud mixed: Vis.75 0 WT 8.0$W.L. 6.C/C 2/32 soft.PH:8.5
3 Sax (caustic lignite) 2 sax alum.strate- 1 sax driscose (CMM)
Past 24 hrs: 8AM to 8:15AM Rig service
8:15AM to 10:45AM Reaming 2594 '
10;45AM to 11:00AM Fix drive motor table.
11AM to 4PM - Reaming hole - 2590
4PM to 4:15PM - Rig service
4:15PM to 12AM Reaming to 2650'
12:AM to 12:15AM Rig Service
12:15AM to 6:15AM Ream and condition to 2716'
6:16 to 8AM - Drilled 4' of new hole to 2720 and run survey. Did not register.
Drilling 2720'.

Sat.
Oct.11/80 17th Day of operations.
7:AM Depth today 2844' (128) Drilling.
Bit#2 = STC. 7 7/8 F-3 in 2716'- SI2844 - 128 in 24hrs.
D/S 42,000/25,000-TRM - 45 = 12 D.C.5¼" = 366'-2 X 20=3.86'
40 stands - D.P.3½ 13.6#
Mud Vis:53:WT. 8.7#-W.L. 7.2C/C PH.8.5
Mixed: 10 sax gel. - 1 sax Celle EX = Driscoes.,2 Soda Ash.
1 Torque trim.
Past 24 hrs: 8:AM to 8:15AM - Rig Service
8:15AM to 4PM - Drilling
4PM to 4:15PM Rig Service
4:15PM to midnite - Drilling
Mid.to 12:15AM R/S.
12:15AM to 7:AM - Drilling.

October 12, 1980 - 18th. Day of operation
7:AM
Depth 2955 (111)
Bit #2 = 7 7/8 STC=F-3 - 2714 Out 2870 154 In
28 3/4 = (600D)
Bit #3 = STC 7 7/8 - V2HJ (Ser. # AT 8018)
(3 x 20 Jets) in 2870 - Made 85' in 14¼ hrs.
Drill String - 46,000/25,000 RPM = 54= 16DC =
5¼" = 489.8 Bottom hole in log 493.50 39 Stands
1 Single
Pump: Triple 4¼ X 7 G/D = strokes per minute
86 = 300#p.p.
Surveys: 2714 @ ¼°
Mud: Vis: 46 wt. 9.1 w.l. 7.2 c/2 2/32 ph. 8.0
Mixed: 13 Gel - 2 caustic lignite 2 soda ash - 1 Lime
Past 24 Hrs: Logging truck on location
Saturday: Hooked up Saturday
one man brought up unit on Friday

Drilling	15 3/4
R/S	3/4
Tripping	3 3/4
Repair Pump	1¼
Pick up D/C	1 ¼
Circ to BTM	1
	24 hrs.

October 13, 1980 19th. Day
7:AM
Depth 3075 (120)
Bit #3 = STC - 7 7/8 V2HJ (3X20 Jets) in at 2870
S.I. 3075 = 205 = 35 1/2
Drill String - 46,000/25,000 - TRPM =62=16DC=
489.80 bottom assembly DC + Subs = 493.50
41 Stands + Single
Surveys: 2714 @ 1/2°
Mud: Vis 40 W.T. 9.1# W.L. 8.1c/c F/C 2/32 PH. 8.0
Mixed: 2 Soda Ash - 2 Caustic Lignite 10 Sax Gel
Past 24 Hours: 1 man logging unit:

3/4	R/S
21 1/4	Drilling
1	Mix Mud
1	Repair Flow Riser
24	Hrs.

Well Report
6-11

80 - 20th. Day of Operation
Depth 3157 (82)
Bit #3STC 7 7/8" ½HJ (3X20Jets) in @ 2870, out @ 3109= 237 in 41¼ (Quill)
Bit #4 (R/R#2) 7 7/8 STC = F=3-3109, still in, 3157= 48' in 9 Hrs., 154' in 283/4 Cumalutive 202' in 37 3/4hrs.
Drill string 46,000#,25,000# 60 RPM. 16 drill collars= 5 1/4X28'=489.8' Bt= 493. + 43 Stands Surveys: 2714 @ ½°
Mud Vis: 47 Wt: 9.0# W.L. 6.8 a/c 2/32 Ph. 8.5

Mixed: (cc 16) 1 Sax Caustic Lignite, 2 Sax Soda Ash 1½ Sax pot ash
Past 24 Hrs.: 16 3/4 Drilling = 9 hrs. #4 7 3/4 on #3
3/4 R/S
1/4 Survey
3 3/4 Trip out #3 in #4
1/4 Circ for Trip.
2 3/4 Washed & Reamed to Bottom 2625 to 2718 = 100'
went o.k. to 3090
24 hrs. to 3110

Wed. Oct.15 7:AM

21st Day of operation
Depth 3335' (178')
Bit #4(RR32) 7 7/8 STC. F3J = 3109 SI 3335'
made: 226' in 33 Hrs, cumolative: 380' in 61 3/4 Hrs.
Drill String 48,000/27,000#TRPM. 60 =
16 Drill Collars 5¼ X 2¼ = 489.8'
Bottom hole assembly = 493' + 46 stands of Drill pipe.
Surveys 2714 @ 1/2°

Mud: Viscosity 43 - WT 9.2# W.Loss 5.6 c/c Fc.2/32 Ph.8.5
Mixed: 3 Sax Soda Ash - 2 Sax Caustic lignite
10 Gel, 1 Sax Driscose.
Past 24 Hrs: 3/4 Rig Service
23¼ Drilling. 7.4 Min. per foot drilling time.

Thurs. Oct.16/80 7:AM

22nd Day of operation
Depth 3433' (98) Drilling
Bit#4(RR#2) 7 7/8STC. - F3J - 3109 SI 3433'
Made 324' in 77¼ Hrs. Cumalitive Total 478' in 28 3/4 Hrs.
D/S: 49,000/30,000 TRPM= 52. 16 Drill collars 5¼ X 2¼ = 489'
Bottom 493 + 47 Stands.
Survey = 27¼ @ 1/2 °
Mud: Vis. 50 WT.9.2#, W.L. 6.8 c/c, Filter cake 2/32 PH.8.0
Mixed: 14 Gel - (CC16) Caustic lignite 1 Sax.
2 Sax Driscose - , 2 Sax Soda Ash.
Past 24 Hrs: 3/4 Rig Service
14¼ Hrs. Drilling
1 3/4 Trip out
3/4 Hr. Circulate hole.
3 ¼ Mix mud.
3 3/4 hr. Repair mud pump.
---
24 Hrs. Total.

Friday Oct.17/80 7:AM

23rd Day of Operation
Depth 3585' (152) Drilling
Bit #4, 7 7/8STC, F#J in 3109' SI. 3585' (3 X 4)jets
476' in 67 Hrs. Cumulative 154' in 28 3/4 Hrs. = 630'
in 97 Hrs.
D/S: 52,000/34,000 TRPM = 55 . Drill Collars 16 5¼DC=489
Bottom 2 X 4.93 = 50 stands Drill pipe.
Surveys: 2714 @ 1/2 = 3109 3/4°.
Mud: Viscosity 42, WT. 9.1#, Water loss 6 c/c 2/32, Ph 8.
Mixed: Driscose 2 Sax, 3 Soda Ash, 34 Gel.
Past 24 Hrs: 3/4 Hrs. Rig Service
19 3/4 Hrs. Drilling
1 3/4 Hrs. Work on pump-Rod packing
1 3/4 Hrs. mix mud.
24 Hrs.

Sat. Oct.18/80 7:AM

24th Day of operation
3729' (144) Drilling
Bit #4(7 7/8RR#) STC-F3J in 3109 = SI 3729'
Made 620' in 89 3/4 Hrs.(3X4 jets)
Cumaltive: 154' - 774' in 118¼ Hrs
D/S: 54.000/30,000 TRRM - 55-D/C= 16 X5¼+489
Bottom 493' 5+5 Stands + 1 single
Pump Triplex 4½ " X 7" = 85 strokes = Pressure 300#
Surveys: 3109 C 3/4°
Mud Vis: 45 WT 9.2 W.L. 5.8 c/c F/C 2/32 Ph9
Added: 2 Soda Ash - 2 Caustic lignite - 20 Gel 1 sax Driscose
Past 24Hrs. 3/4 Rig/Ser.
21 3/4 Drilling
1 1/2 Mix mud: Dump Tanks

Nelson #6-11

Sunday
Oct.19/80
7:AM

25th Day of operation.
3816' (86) Drilling with Bit #5
Bit#4 (RR#2) STC- 7 7/8 - F3J in 3109'
Out 3760'
651 ' in 95½ Hrs.
Cum. 154 = 28 3/4 Hrs. 805' in 124 Hrs.R.S.
Bit #5 - 7 7/8 STC - F-3 (#BE 1039) in 3760'
(3 X 14 jets) SI. 3816 - 56' on 10 3/4 hrs.
Pump: Triplex 4 1/2 X 7' X 86 strokes X 300#
Surveys: 3760 C 1°
Mud Vis: 45 WT 9.2 W.L. 6.2 C/C
6:AM check: F/C 2/32° PH.8.5
Added: 24 - 3 Sax Soda Ash, 3 Sax Caustic lignite (C.C.16)
Past 24 Hrs: 3/4 Hrs. Rig Service
16 Hrs. Drilling
1/2 Hr. Survey
4 3/4 tripping
1 Hr. circulate hole for trip.
1 Hr was to bottom.
Water: Van: lots of mud, water tank full, Fuel every 5th Day. Tripped yesterday afternoon.

Monday
Oct. 20/80
7:AM

26th Day of operation.
3945' (129) Drilling 19½ hrs.
Bit #5- STC 7 7/8 = F3J - 3760' SI 3945'
Cumaltive 185' in 30 1/4 Hrs.
D/S= 58,000/30,000 RPM = 55 = 16 X 5½"DC = 489
BTM = 493'.50 X 55 stands = 1 single
Pump: C/D = 4½ X 7" = 85.5 PM = 300#
Mud Vis: 50 = W.T. 9.2# WL 8.0 FC 2/32° PH 11.5'
Mixed: 2 Soda Ash, 2 Caustic lignite, 1 Driscose= 20 Gel:
Survey 3760 @ 1°
Past 24 Hrs. 3/4 Hrs. R/S.
19½ Drilling
2 3/4 work on pump
2 liner packing washed out.
1 Hr. mix Mud.

Tues.
Oct.21/80
7:AM

27 Day of operation
4,055' (110') Drilling 14½Hrs.
Bit #5 STC. 7 7/8 Size, F-3 in 3760' still in.
Footage 295' in 44½ hrs.
Wt.9.2, Vis 60, WL. 8.0 FC 2/32nd
PP. 300#, String W.56,000' Wt. on Bit 30,000,strokes 85
Liner Size 4½.
Mud mixed: 2 Sax Celex, 3 caustic, 3CC-16, 3 soda ash.
57 stands and 1 single.
Past 24 Hrs. Mix mud ½ hr.
stuck in hole 1 3/4 hr.free now.
Rot.Hrs. 14½ Hrs.
Trpg. Hrs. 2.
Rpr.Hrs. Changed wash pipe packing 1 3/4.
Work on pump. 3 hrs.

Wed.
Oct.22/80
7:AM

26 Day of operation.
4201' (146) past 24 Hrs.
Bit #5-F3J in 3760' out 4201' made 441' in 65 3/4Hrs.
Drill string 60,000 /30,000-RPM 55- 16 5¼ Drill collars.
Pump: triplex 4½" by 85 strokes.
300# PUmp pressure, there is problem, pump to small cannot clean out as it should.
Mud: Vis.48-WL 8.3-WT. 9.6 2/32 FC.Phll,Added 20S.A.-2CL.2S.2Dris.
Status: Condition mud to shut down operations, rig has reached capacity. Cannot drill deeper, shutting down and moving small rig off location.
Waiting for bigger rig to drill total depth.
Past 24 Hrs:
3/4 Hrs. Rig service.
21¼ Hrs. Drilling
2 Hrs. working stuck drill pipe.

---

hurs.
anuary 22, 1981 - RESUME OPERATIONS 27th Day of Operation

Urado Construction moving D-7 Cat to location to enlarge pad for Brinkerhoff Rig #63 to move on Monday Jan. 26/81.

riday
an. 23/81

28th Day of Operation
Charlie Lancaster, Pusher of Rig #63, meeting with Urado Construction at location - need to enlarge pad.

at & Sun.
an. 24 & 25/81

29th & 30th Day of Operation
Waiting on Brinkerhoff Rig #63 to come from Davis location at Bluff, plugging and abandoning hole. Rig released to MSR at midnight Jan. 25/81/

onday
an. 26/81

31st Day of Operation
Brinkerhoff-Signal Rig #63 moving on - five loads on location at 2:PM - eight loads enroute.

uesday
an. 27/81

32nd day of Operation
Work on derrick with welder - raise mast - haul water - install dead men - install BOP. (Brinkerhoff - 1st Day)

ed.
an. 28/81

4200' (0) (Brinkerhoff - 2nd Day)
Finish rigging up - Ream out rathole - prepare to drill.

hurs.- 7:AM
an. 29/81

33rd Day of Operations (Brinkerhoff - 3rd Day)
4210' (0)
Running in the hole with Drill Collars and Pipe.
Past 24 Hours:
3 Hrs. Mixing Mud - 30 Sax Gel
4 Hrs. Reaming Rat Hole & Set Sock
1½ Hrs. Drill Mouse Hole & Set Sock
1/2 Hr. Mud Loggers on Location.
8 Hrs. Set BOP with new spool and set up.

Jan.29/81 - Cont -

2 Hrs. Wait on Welder to weld flowline.
1 Hr. Picking up Drill Collars - 565' (18 D.C.) in hole.
4 Hrs. Pipe in hole 800'.
Bit - 7 7/8" STC - DGT-J (Bit #6)

Friday - 7:AM
Jan. 30/81

34th Day of Operation (Brinkerhoff 4th Day)
4210' T.D. -(Cleaned out to 2,078')
Bit #6 - DGT-J - BJ 1397 (Reamed out 466' in 17 Hrs.)
D. S. 64,000/10,000 = RPM 45
Pump: D375 = 5' x 14' x 68 Strokes = 900#
Mud: Viscosity 76 = Wt. 9.3 WL 7.2 c/c PH 9.5. Added 61 Gel; 6 Caustic; 6 Soda Ash; 6 Caustic Lignite; SPA 5 Sax; CMS 5 Sax.
Past 24 Hours:
6 Hrs. Picking Up Drill Pipe & Measure in 2582.
11 Hrs. Circulate Hole and Mix & condition mud to 2613'
7 Hrs. Reaming to 2,708'

Saturday - 7:AM
Jan. 31/81

35th Day of Operations (Brinkerhoff 5th day - 1st day Dlg.)
4280' (80')
Drilling new 7/78" Hole
Bit #6 - STC 7/78" BJ 1397 (In 2242 Reamed to 4200' 28 3/4 Hrs)
Drlg. 4200-4280 in 9¼ Hrs.
D.S. 84,000/35,000 = RPM 60
Pump: D375= 5" x 14" x 66 = 1050#
Mud: Viscosity 75 = Wt. 9.2# WL 5 c/c 2/32 ph 10. Added 9 Sax Gel 1 SPA
Past 24 Hours
12¼ Hrs. Reamed & Conditioned Hole
1/4 Hr. R/S
1¼ Hrs. Circulate & Cond. on Bottom
10¼ Hrs. Drilling.

Sunday - 7:AM
Feb. 1/81

36th Day of Operation (Brinkerhoff 6th day - 2 Days Dlg.)
4387' (107')
Drilling with Bit #7 - STC 7 7/8" F3-J (3x11 jets) In 4301' SI 4387'
Made 86' in 10 3/4 Hrs.
Bit #6 - DGT-J - In 4200 Out 4301 Made 101' in 13¼ Hrs.
D.S. 86,000/35,000 - RPM 45 = 18 x 6" x 2¼ - Total 525
Pump: D375 = 5" x 14" x 66 Strokes = 1000#
Mud: Viscosity 47 = Wt. 9.7# W.L. 6 c/c 2/32 PH. 11 (Added 1 Caustic Lignite 1 SPA
Survey: 4301' - 0^{o}
Past 24 Hours:
17 3/4 Hrs. - Drilling
7 1/4 Hrs. - Tripping
1/4 Hr. - Survey
1 Hr. - Repair Diagraph on Cathead.
1/2 Hr. - Break - Circ. on Bottom
1/4 Hr. - R/S

[illegible] - 7:AM
[illegible] 2/81 37th Day of Operation (Brinkerhoff 7th Day - 3 Days Dlg.)
4547' (160')
Bit #7 STC 7 7/8" F3-J (In 4301' SI 4547') 246' in 32¼ Hrs.
D.S.: 88,000/35,000 - RPM 45 (18 x 6" DC - 525')
Pump: D375 = 5" x 14" x 65 Strokes = 1000# Pump Pressure
Mud.: Viscosity 45 = WT. 9.5# W.L. 5 c/c 2/32 ph 11. Added 25 Gel; 3 Sax CLS; 3 Soda Ash and 3 Sax SPA
Survey: 4301' - 0°
Past 24 Hours
21 3/4 Hrs - Drilling (160' in 21 3/4 Hr. = 7.56 ft. per hr.)
3/4 Hr. - Circ. Samples @ 4491'
1/4 Hr. - R/S
1 1/4 Hrs.- Rig Repair (New Rotary Chain - New Valves in Pump)

Tuesday - 7:AM
Feb. 3/81 38th Day of Operation (Brinkerhoff 8th Day - 4 days Dlg.)
4736' (189')
Bit #7 STC 7 7/8" F3-J (In at 4301' SI at 4736" (435' in 51½ = 8.4)
D.S.: 90,000/35,000 - RPM 45 (18 x 6" x 2½ = 525)
Pump: D375 = 5" x 14" x 64 strokes = 1000# P.P.
Mud: Viscosity 42 = WT. 9.4# W.L. 8.6 c/c 2/32 ph. 9.5 (Added 15 Gel; 3 CLS' 2 Caustic Soda; 2 Soda Ash; 1 SPL
Survey: 4301' - 0°
Past 24 Hours:
21 1/4 Hrs. - Drilling
1 3/4 Hrs. - Circ. Samples - 4632 & 4675
1/4 Hrs. - R/S
3/4 Hrs. - Repair - D.W. Motors quit--Repair air lines.

Wednesday - 7:AM
Feb. 4/81 39th Day of Operation (Brinkerhoff 9th Day - 5 Days Dlg.)
4865' (129')
Bit #7 STC 7 7/8" F3-J (In 4301' SI 4865'- 564' in 74½ Hrs. (3 x 11 jets) 7.5/hr.
D.S.: 90,000/35,000 - RPM 45 (18 x 6" x 2½ = 525')
Pump: D375 = 5' x 14" x 69 Stks = 1150# PP
Mud: Viscosity 41 = WT. 9.4# W.L. 6.2 c/c 2/32 ph 9.5 (Added 25 Gel; 4 CLS; 1 Soda Ash; 3 SPA; 3 Cuastic Soda; 3 Lignite
Survey: 4301' - 0° 4812' - 1°
Past 24 Hours
20 1/2 Hrs. - Drilling
1/2 Hr. - Survey @ 4812'
1/2 Hr. - R/S
2 1/2 Hr. - Rig Repair (Change Gaskets, Packing in Pump, Mechanic adjusting pump motors.

Thursday - 7:AM
Feb. 5/81 40th Day of Operation (Brinkerhoff 10th Day - 6 days Dlg.)
4990' (125') - Drilling with Bit #8
Bit #7 STC 7 7/8" F3-J (In 4301' - Out 4887' - 586' in 76 3/4 hrs.)
Bit #8 STC 7 7/8' F2-J SN#BK1936 (In 4887' SI 4990'= 103" in 14 hrs. - 7.3f/p/h/)
D.S.: 97,000/35,000 - RPM 45 (18 x 6" x 2½ = 525)
Pump: D375 = 5" x 14" x 70 strokes = 950# PP (Jets 3 x 13)
Mud: Viscosity 43 = WT. 9.4# W.L. 6.4 c/c 2/32 ph. 9 (Added 10 Gel; 2 SPA; 2 Sax CLS; 2 Lignite; 2 Caustic; 2 Soda Ash)
Survey: 4812' - 1°
Past 24 Hours
16 3/4 Hrs. - Drilling
6 1/2 Hrs. - Round Trip
3/4 Hrs. Circ. Samples @ 4887

[illegible]day - 7:AM
Feb. 6/81

Brinkerhoff

41st Day of [illegible]eration (11th day - 7 days Dlg
5193' (203')
Bit #8 STC 7 7/8" F2-J SN#BK1936 (In 4887' SI 5193' - 306' in 36½ = 8.4 f/p/h)
D.S.: 98,000/35,000 RPM 45 (DC 17 x 6" x 2¼ = 525)
Pump: D375 = 5" x 14" x 70 strokes = 950# PP (Jets 3 x 13)
Mud: Viscosity 38 Wt. 9.3# W.L. 6 c/c 2/32 ph. 9.5 (Added 15 Gel; 5 Lignite; 2 SPA; 4 CLS
Survey: 4812' - 1°
Past 24 Hours
22 1/2 Hrs. - Drilling
1 1/2 Hrs. - Circ. Samples - 5028 & 5057

Saturday - 7:AM
Feb. 7/81

Brinkerhoff

42nd Day of Operation (12th day - 8 days Dlg.)
5353' (160')
Bit #8 STC 7 7/8" F2-J SN#BK1936 (In 4887' SI 5353 - 466' in 60½ = 7.7 f/p/h/)
D.S.: 100,000/35,000 RPM 45 (DC 18 x 6" x 2¼ = 525)
Pump: D375 = 5" x 14" x 70 strokes = 950# PP (Jets 3 x 13)
Mud: Viscosity 38 WT. 9.2# W.L. 6.4 c/c 2/32 ph. 9 (Added 10 Gel; 3 Soda Ash; 3 Caustic Soda; 3 SPA; 5 CLS; 6 Lignite)
Survey: 4812' - 1° 5354' - 1¼°
Past 24 Hours
23 1/4 Hrs. - Drilling
3/4 Hrs. - R/S 7 Survey (5400' Noon)

Sunday - 7:AM
Feb. 8/81

Brinkerhoff

43rd Day of Operation (13th Day - 9 days Dlg.)
5535' (182')
Bit #8 STC 7 7/8" F2-J (In 4887' SI 5535' - 648' in 83½ hrs. = 7.8 f/p/h)
D.S.: 102,000/38,000 - RPM 45 (18 DC = 525)
Pump: D375 = 5" x 14" x 70 strokes = 950#PP (Jets 3 x 13)
Mud: Viscosity 38 WT. 9.3# W.L. 5 c/c 2/32 ph. 10 (Added 27 Gel; 3 Soda; 6 CLS; 3 SPA; 9 Lignite
Surveys: 5334' - 1¼°
Past 24 Hours
23 3/4 Hrs. - Drilling
1/4 Hrs. - R/S

5:PM - Dlg. 5614'
2' Break 5584-85 = 4 mins. = 70 Units
5586-87 = 4 mins. = 70 Units
(Methane,Ethane,Propane)
5640' Lost Volume

Monday - 7:AM
Feb. 9/81

Brinkerhoff

44th Day of Operation (14th Day - 10 days Dlg.)
5705' (170')
Bit #8 STC 7 7/8" F2-J (In 4887' SI 5705' (818' in 106½ hrs. = 7.7 f/p/h/
D.S.: 105,000/38,000 RPM 45 (18 DC = 525)
Pump: D375 = 5" x 14" x 70 strokes = 1000# PP (Jets 3 x 13)
Mud: Viscosity 40 WT. 9.2# W.L. 5 c/c 2/32 ph. 9.5 (Added 10 Gel; 6 Lignite; 3 Drispak; 6 CLS = 3 cans C16-60 (anti-corrosion); 2 Caustic; 1 SPA
Surveys: 5334' - 1¼°
Past 24 Hours
23 3/4 Hrs. - Drilling
1/4 Hrs. - R/S

5640' Lost Volume

Tuesday - 7:AM
Feb./81
10

Brinkerhoff

45th Day Operations (15th Day - 11 Dlg.)
5802' (97')
Bit #8 STC 7 7/8" F2-J (In 4887' - Out 5802' (915 in 119½ = 7.6 f/p/h/

Running DST #1 in Upper Ismay
Condition - Dull-65¼)

Cont---

on. #6-11

eb. 10/81 - Cont--

D.S.: 105,000/38,000 RPM = 45 (18 DC x 6" x 2¼ x 28 = 525)
Pump: D375 = 5" x 14" x 70 strokes = 1000# PP (Jets 3 x 13)
Mud: Viscosity 40 WT. 9.2# W.L. 4.2 c/c 2/32 ph. 9 (Added 12 Gel; 4 Lignite; 1 CLS; 2 Drispak; 1 Caustic
Survey: 5334' - 1¼° 5802' - 1/4°
Past 24 Hours:
12 1/4 Hrs. - Dlg. (to 6:PM)
6 3/4 Hrs. - 1 Short Trip 1 3/4 hrs.
1/4 Hrs. - Survey
2 Hrs. - Circ. Before, short trip 1 Hr. After, short trip 1 Hr.
1/4 Hrs. - R/S
2 1/2 Hrs. - Jetted Pits & Cleaned Tanks
DST #1 - 5685' to 5802' - 117' Interval
Running 2 Long Packers - Jars

nesday - 7:AM Brinkerhoff
. 11/81 46th Day of Operations (16 Days - 11 Drilling)
5802' (0')
Bit #7 (rerun - 586' in 76 3/4Hrs. Fair Cond. Back In @ 5802')
D.S.: 10,500/38,000 45 RPM (18 DC x 6" x 2' Junk Sub = 527) (84 Stands + single)
Pump: D375 = 5" x 14" x 70 strokes = 1000# PP (3 x 13 Jets)
Mud: Viscosity 41 WT. 9# W.L. 6.7 c/c 2/32 ph. 9 (Added: 27 Gel; No Chemicals)
Survey: 5802' - 1/4°
Past 24 Hours:
9 3/4 Hrs. - Trip In & Trip Out DST #1
3 Hrs. - Testing DST #1
2 1/4 Hrs. - Work Tester to Bottom
1 1/4 Hrs. - Mix Volume Lost to Reserve Pits
2 Hrs. - Pickup and Make up Tool
2 1/4 Hrs. - Break Down and Load
2 3/4 Hrs. - Check Cellar & Hookup Jet
1 Hrs. - Running with Bit

DST#1

Int.	1st Packer	2nd Packer	
	5676	5685	5802

117' Interval
Tool opened with weak blow:
Off bottom bucket 1 Min
9# on 1/4" = 5 mins.
18# on 1/4" = 10 mins.
18# on 1/4" = 15 mins.
17# on 1/4" = 20 mins.
GTS to 1/4" 25 mins. = 22MCF Sweet Gas to Flare - Did Burn
17# on 3/16 = 30 mins 13MCF
18# on 3/16 = 30 mins- 14 MCF

I.F. 30 mins.
I.S.I 30 mins.
2nd 60 mins.
F.S.I. 60 mins.
Test 3 Hrs. (Rec'd 900" of Sl. gas cut, water mud. Appears to be Drilling Mud, not salty.)

I.H.P 2716
I.F. 227-263
I.S.I. 323
F.I.S.I. 323
2nd Flow 291-312
F.S.I. 354
F.H.I. 2716

- 7:AM Brinkerhoff
47th Day of Operations (17 Days - 12 Drilling)
5900' (98')
Bit #7 - Rerun In 5802' S.I. 5900' = 98' in 15 Hrs.
Cum. 586' 76 3/4
684' in 91 3/4 Hrs.
D.S.: 107,000/38,000 45 RPM - 18 DC + Junk Sub
Pump: D375 = 5" x 14" x 70 = 900# PP (527' - 3 x 13 Jets)
Mud: Viscosity 44 WT. 9.1# W.L. 7 c/c 2/32 ph. 9 (Added: 42 Gel; 16 Lignite; 14 CLS; 3 Drispac; 6 Caustic; 3 Soda Ash
Survey: 5802 - 1/4°
Past 24 Hours:
15 Hrs. - Drilling
1 1/2 Hrs. - Trip In with Bit #7
1 1/2 Hrs. - Hook up Cellar Jet.
4 1/2 Hrs. - Mixing Mud
1 1/2 Hrs. - Break Circ. & Clean to Bottom

- 7:AM Brinkerhoff
13/81 48th Day of Operations (18 Days - 13 Drilling)
6028' (128')
Bit #7 - Rerun In 5802' S.I. 6028' = 226' in 37½
Cum 586' in 76 3/4
812' in 114 1/4 Hrs.
D.S.: 110,000/38,000 RPM 45 = 18 DC + Junk Sub
PumP: D375 = 6 x 2¼ x 30 x 2 = 527'
Mud: Viscosity 50 WT. 9.1# W.L. 5.2 c/c 2/32 ph. 9 (Added 34 Gel; 1 Soda Ash; 5 Sax CLS; 8 Sax Lignite; 2 Sax Caustic)
Survey: 5802 - 1/4°
Past 24 Hours:
22 1/2 Hrs. - Drilling 6000'-6010' - Third Gas Kick--Lower Ismay
1/4 Hrs. - R/S
1 1/4 Hrs. - Jetting Cellar

- 7:AM Brinkerhoff
14/81 49th Day of Operations (19 Days - 14 Drilling)
6075' (47') Running Logs: Induction Log Run
Bit #7 (Rerun STC 7 7/8" F3-J) In 5802' Out 6075' = 273' in 43¼ Hrs.
(SN#BF9396) Cum. 586' in 76 3/4 Hrs.
Total on Bit 859 in 120 Hrs. - 7.16f/p
D.S.: 110,000/38,000 45 RPM - 18 DC + Junk Sub
Pump: D375 = 5" x 14" x 70 strokes = 1000# PP - Total Bottom Hole - 527
Mud: Viscosity (5:PM last night) 56 WT. 9# W.L. 6.7 c/c 2/32 ph. 8.5 (Added 46 Gel; 2 Soda Ash; 4 CLS; 8 Caustic; 4 Drispac; 1 Cl-660.
Survey: 6075 - 3/4°
Past 24 Hours:
5 3/4 Hrs. Dlg. to 6075'
4 1/2 Hrs. Circ.
4 3/4 Hrs. Short Trip out of Hole
1/4 Hrs. Survey to 6075'
1/2 Hrs. Repair Hydromatic
8 Hrs. Logging
1/4 Hrs. R/S

Brinkerhoff

Day of Operations (20th Day - 15 Drilling)
(46') Drilling
- RR STC 7 7/8" F3-J SN#BF9396 - In 5802' SI 6121' = 319 in 50 Hrs.
586' in 76 3/4 Hrs
Cum. 905' in 126 3/4 Hr

110,000/32,000 45 RPM - 18 DC = 525
D375 = 5" x 14" x 70 strokes = 900# PP (3 x 13 Jets)
Viscosity 48 WT. 9# W.L. 8.6 c/c F/C 2/32 ph. 9 (Added: 1 Drispac;
Ash; 1 CLS; 3 Caustic; = $420.00 (Total Mud to date, $14,268.00)
y: 6075' - 3/4°
24 Hours:
3/4 Hrs. - Drilling
Hrs. - Short Trip
1/2 Hrs. - Welding on 8 5/8"
3/4 Hrs. - Circ.
Hrs. - Logging & Work on Tool

Brinkerhoff

51 Days of Operations (21st Day - 16 Drilling)
TOTAL DEPTH 6155' --- Laying down Drill Pipe - Prep. to Run 5½" Casing
Ran 147 jts. of 5½", 17# Production Casing. Overall measurements of casing run in hole - 6159'. Casing landed on bottom at 6155' K.B.. Cut 14' off last jt. and landed in slips.

Ran 1 B.J. Float Shoe, measuring 1' .69", and 8 B.J. 5½" Centralizers, at 6100', 6000', 5900', 5800', 5700', 5600', 5500' and 5400'.

Cemented casing with 150 sax of 50/50 POZ mix cement, and 15% Salt. Ran 500 Gals. of mud flush ahead of cement.

Past 24 Hours: - 6155' T.D. ....Made 34' past 24 hours.

5 Hrs. - Drilling to 6155'
9 Hrs. - Tripping out for logs - Trip in to circ. & lay down pipe(4½ Hrs.ea)
4 Hrs. - Running Density Neutron Logs after waiting for second truck to come from Farmington.
6 Hrs. - Laying down drill pipe (24 hr. period to 7:AM Monday Feb. 16/81)

Report for Monday - Feb. 16/81 - 7:AM to Feb. 17/81

2 Hrs. - Laying down Drill Collars & racking pipe tubs.(7:AM to 9:AM)
6 Hrs. - Rig up and run 147 jts. of 5½" Prod. Casing (9:AM to 3:PM)
1 Hr. - Circ. & Work pipe on bottom (3:PM to 4:PM)
1 Hr. - Nipple up B. J. Cement Wagons, pump 15 Bbls. water ahead, followed by 500 Gals. mud flush, cementing with 150 Sax 50/50 POZ and 15% Salt Plug down at 4:50 PM - Monday, Feb. 16/81. Bumped plug with 800#. Released pressure, float shoe held, repressured to 800# and shut-in casing.
2 Hrs. - WOC to 7:PM. Cut 5½" casing, removed 14' piece from cellar. Set casing in slips before cutting loose.
2 Hrs. - Remove BOP and stripped cellar (7:PM to 9:PM)
RIG RELEASED 9:PM - Feb. 16/81.

REMARKS:

Will move Brinkerhoff Rig off location later this week.
Will locate Completion Rig for Completion Program, to follow.
Plan to perforate, acidize, and test all zones having shows, starting with the Desert Creek, at the bottom, and working up the hole to test all gas shows in the Ismay Formations. Completion Program to follow, when Completion Rig available.

ROCKY MOUNTAIN GEO-ENGINEERING CO.
WELL SITE GEOLOGY · MUD LOGGING
2450 INDUSTRIAL BLVD. · PHONE [illegible] · GRAND JUNCTION, COLORADO

February 19, 1981

Mountain States Resources, Inc.
P. O. Box 176
Cut Bank, Montana 59427

Gentlemen:

Enclosed is the final log on the Nelson 6-11 well located in Section 6, T33S, R24E, San Juan County, Utah.

We appreciated the opportunity to serve you. If we can be of any further assistance in the final evaluation of zones encountered, please feel free to call on us.

Sincerely,

Robert L. Wright

Robert L. Wright
President

RLW/jaf
Encl: 2 logs
XXC: Wexpro Company, Farmington, N.M. - 2;
Worldwide Exploration Consultants, Denver - 2

BIT RECORD

WELL NAME: NELSON 6-11

ELEVATION: 6915' KB 6926'

COMPANY NAME: MOUNTAIN STATES RESOURCES, INC.

SECTION: NESW 6

DRILLING CONTRACTOR: BRINKERHOFF-SIGNAL RIG # 63

LOCATION: T33S R24W SAN JUAN CO. UTAH

SPUD DATE:

T.D. DATE 13 FEBUARY 1981

BIT RECORD							FT PER/DAY			FT PER/DAY		
RUN	MAKE	TYPE	IN	FTG	HRS	FT/HR	DATE	MDNT DEPTH	FT	DATE	MDNT DEPTH	FT
6	HTC	DGTJ	4200	101	13 1/4	7.62	1/30/81	4200				
7	STC	F3	4301	586	76 3/4	7.63	1/31/81	4228	28			
8	STC	F2	4887	915	119 1/2	7.66	2/ 1/81	4332	104			
RR7	STC	F3	5802	353	53 3/4	6.57	2/ 2/81	4491	159			
							2/3 /81	4699	208			
							2/4/ 81	4837	138			
							2/ 5/81	4938	101			
							2/ 6/81	5151	213			
							2/ 7/81	5315	164			
							2/ 8/81	5501	186			
							2/ 9/81	5662	161			
							2/10/81	5802	140			
							2/11/81	5802	0			
							2/12/81	5856	54			
							2/13/81	6009	153			
							2/14/81	6075	66			
							2/15/81	6110	35			
							2/16/81	6155	45			

DEVIATION SURVEYS

WELL NAME NELSON 6-11 COUNTY SAN JUAN STATE UTAH

DEPTH	DEVIATION	DEPTH	DEVIATION	DEPTH	DEVIATION	DEPTH	DEVIATION
4301	0						
4812	1						
5334	1 1/4						
6075	3/4						

MUD RECORD

DATE	DEPTH	WEIGHT	MUD GRADIENT	FUNNEL VIS	PLASTIC VIS	YIELD POINT	GEL STRENGHT	PH	FILTRATE API	CAKE	ALKALINITY FILTRATE	CHLORIDE PPM	CALCIUM PPM	SAND % CONTENT	SOLIDS % CONTENTS	OIL % CONTENT	WATER % CONTENT	% KCL
1-30	4110	9.3	.4836	71	36	25	6/11	10.0	5.0	2/32		600	60	.50	6		94	
1-31	4301	9.3	.5096	53	20	25	3/5	11.0	6.0	2/32	1.2	2800	200	1.	6		94	
2-1	4395	9.9	.5148	45	20	13	2/5	11.	6.5	2/32	.6	2700	200	1.	6		94	
2-2	4573	9.4	.4888	42	16	6	2/4	9.5	8.6	2/32	.3	2850	120	1	5		95	
2-3	4755	9.4	.4888	41	12	4	2/4	9.5	6.2	2/32	.35	1650	140	1	5		95	
2-4	4888	9.4	.488	43	kk	4	2/2	9,0	6.4	2/32	.2	1450	100	1	6		94	
2-5	5038	9.3	.4836	37	11 .	2	0/2	9.5	5.6	2/32	.6	1625	tr	1	5		95	
2-6	5231	9.2	.4784	40	13	5	2/4	9.0	6.4	1/32	.2	1750	240	1.5	5		95	
2-7	5407	9.3	.4836	37	10	2	0/2	10	5.1	2/32		2100	tr	2	5		95	
2-8	5577	9.3	.4784	40	12	3	0/2	9.0	6.5	1/32		1450	80	2	5		95	
2-9	5749	9.2	.4784	40	15	8	2/2	9.0	4.2	1/32		1610	80	.50	5		95	
2-10	5802	9.0	.468	41	10	6	2/2	8.5	6.7	2/32		1100	80	.50	4		96	
2-11	5802	9.0	.468	44	14	7	2/5	9.0	7.3	2/32		1500	120	.50	4		96	
2-12	5945	9.1	.4732	41	16	12	2/5	9.0	5.2	2/32		1125	120	1	5		95	
2-13	6056	9.0	.468	56	21	19	2/12	8.5	6.7	2/32	.1	1625	325	1	5		95	
2-14	6075	9.0	.468	55	19	17	2/5	9.0	6.0	2/32		?	250	1	4		96	
2-15	6140	8.7	.4524	54	12	12	2/16	7.0	9.7	1/32		870	720	1	4		96	

DRILL STEM TEST REPORT

DST # 1 Date 10 Febuary 1981 Testing Co. LYNES

WELL NAME: NELSON 6-11

Formation: UPPER ISMAY Interval: 5685'-5802' Wtr. Cushion NONE

Hole Size 7 7/8" Packer Size 7" Drl. Pipe Size 4 Bbls/Ft 0.01084

Drl. Collar Size 2 1/4 Bbls/Ft 0.04958 Drlg. Contractor BRINKERHOFF-SIGNAL

Mud Filtrate: Ppm Nitrate 0 Ppm Chlorides 1100

	Minutes Duration
Preflow	30
Initial Shutin	30
Flow Period	60
Final Shutin	60

Gas to Surf. 25 Min; Rate 15 LBS @ ¼" CHOKE

Fluid to Surf. 0 Min; Rate 0

Mud 0 Min; Wtr 0 Min; Oil 0 Min

Test Description: I FLW WK BOB IN 1 MIN 9# IN 5 MIN 18# IN 10 MIN 18# IN 15 MIN 17# IN 20 MIN GTS IN 25 MIN 1/4" CHOKE WITH 15# F FLW V WK INC BOB IN 25 MIN DEC 40 MIN 4" UNDER WTR AT END OF FLW TOTAL FLUID RECOVERED 900 FT OF SL GAS CUT MUD

Orifice Plate Size (CHOKE)	Temp.	Minutes from V.O.	Pressure (PSI)	Rate (MCFPD)
1/4			15	22.09
3/16			17	13.64
3/16			18	14.44

(BOTTOM CHART)
Pressure Records (Field Readings) -- Bomb Depth 5667' Bottom Hole Temp. 121F °

Pre-Flow				Final Flow				
IHP 2688	IFP 248	FFP 280	ISIP 313	IFP 290	FFP 330	FSIP 300	FHP 2688	

Sampler Capacity 2150 Cc's; Sampler Pressure 310 PSI Rstv 0 Temp 0 °

Cu Ft Gas 5.1 Cc's Oil 0 Cc's Water 0 Cc's (Other) 0

Sampler Recovery (Water): Ppm Nitrate 0 Ppm Chlorides 0

Pipe Recovery: TOP SMPL: 2.2 @ 54F 3500 PPM MIDDLE SMPL: 4 @ 68F 1400 PPM BOTTOM CHART: 6 @ 50F 1200 PPM

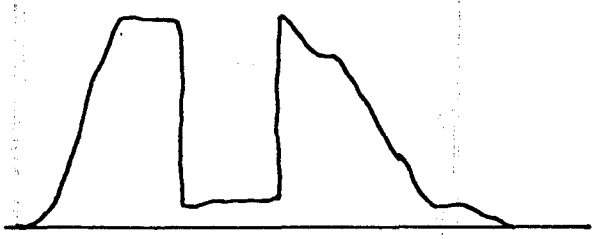
Problems: 45 FT FILL WORKED TOOL TO BOTTOM

Remarks: TEST SHOWS #3-5 GAS CHROMATOGRAPH RESULTS: C-1: 180480 PPM C-2: 142760 PPM C-3: 28560 PPM C-4: 7925 PPM C-5: 9510 PPM

Agent of Operator LEE WHITING

(PLEASE NOTE: CHART DIAGRAM ON BACK)

BOTTOM CHART



TOP CHART PRESSURE RECORDS

BOMB DEPTH	5692'
IHP	2716
IFP	227
FFP	263
ISIP	323
IFP	291
FFP	312
FSIP	354
FHP	2716

ROCKY MOUNTAIN GEO-ENGINEERING CO.

WELL LOGGING — CORE AND WATER ANALYSIS

2450 INDUSTRIAL BLVD. PHONE 243-3044 GRAND JUNCTION, COLORADO 81501

MOUNTAIN STATES RESOURCES, INC.

NELSON 6-11 VEGA FIELD

NESW SEC 6 T33S R24E SAN JUAN CO. UTAH

ZONE OF INTEREST NO. 1

INTERVAL: From 5364 To 5366

DRILL RATE: Abv 11 MIN/FT Thru 3 MIN/FT Below ~~6 MIN/FT~~

MUD GAS-CHROMATOGRAPH DATA (PPM)

	Total Gas	C1	C2	C3	C4-i	C4-n	C5	He	
Before	2 UNITS	--	--						
During	130 UNITS	627	--						
After	10 UNITS	200	--						

Type gas increase: Gradual ☐ Sharp ☒

Gas variation within zone: Steady ☒ Erratic ☐ Increasing ☐ Decreasing ☐

CARBIDE HOLE RATIO: $\frac{\text{GRAMS}}{\text{READING}}$ X Min. in Peak = _____ Sensitivity: Poor ☐ Fair ☐ Good ☒

FLUO: Mineral ☐ Even ☐ Spotty ☐
None ☒ % in total sample _____
Poor ☐
Fair ☐ % in show lithology _____
Good ☐ COLOR: _____

CUT: None ☒ Streaming
Poor ☐ Slow ☐
Fair ☐ Mod ☐
Good ☐ Fast ☐
COLOR: _____

STAIN: None ☒ Poor ☐ Fair ☐ Good ☐ Live ☐ Dead ☐ Residue ☐ Even ☐ Spotty ☐ Lt. ☐ Dk. ☐

POROSITY: Poor ☒ Fair ☐ Good ☐ Kind _____

LITHOLOGY SS WH GY GRN FG W SRT ANG SL CALC SFT-FRM GLAUC

SAMPLE QUALITY GOOD

NOTIFIED ED DURKEE 2/7/81 **REMARKS:**

ZONE DESCRIBED BY: JIM VAN METER

ROCKY MOUNTAIN GEO-ENGINEERING CO.

WELL LOGGING — CORE AND WATER ANALYSIS

2450 INDUSTRIAL BLVD. PHONE 243-3044 GRAND JUNCTION, COLORADO 81501

MOUNTAIN STATES RESOURCES, INC.

NELSON 6-11 VEGA FIELD

NESW SEC 6 T33S R24E SAN JUAN CO. UTAH

ZONE OF INTEREST NO. 2

INTERVAL: From 5583 To 5587

DRILL RATE: Abv 6.5 MIN/FT Thru 4 MIN/FT Below 6.5 MIN/FT

MUD GAS-CHROMATOGRAPH DATA (PPM)

	Total Gas	C1	C2	C3	C4-i	C4-n	C5	He	
Before	2 UNITS	--.	--	--	--				
During	70 UNITS	1613	523	125	--				
After	2 UNITS	--	--	--	--				

Type gas increase: Gradual ☐ Sharp ☒

Gas variation within zone: Steady ☒ Erratic ☐ Increasing ☐ Decreasing ☐

CARBIDE HOLE RATIO: GRAMS / READING X Min. in Peak = _____ Sensitivity: Poor ☐ Fair ☐ Good ☒

FLUO: Mineral ☐ Even ☐ Spotty ☐
None ☒ % in total sample _____
Poor ☐
Fair ☐ % in show lithology _____
Good ☐ COLOR: _____

CUT: None ☒ Streaming
Poor ☐ Slow ☐
Fair ☐ Mod ☐
Good ☐ Fast ☐
COLOR: _____

STAIN: None ☒ Poor ☐ Fair ☐ Good ☐ Live ☐ Dead ☐ Residue ☐ Even ☐ Spotty ☐ Lt. ☐ Dk. ☐

POROSITY: Poor ☒ Fair ☐ Good ☐ Kind _____

LITHOLOGY LS CRM-LT GY FRM-HD DNS MIC-CRPXLN OCC VFXLN OOL-PEL

SAMPLE QUALITY GOOD

NOTIFIED 2/8/81 **REMARKS:** _____

ZONE DESCRIBED BY: KEITH CLEM

ROCKY MOUNTAIN GEO-ENGINEERING CO.

WELL LOGGING — CORE AND WATER ANALYSIS

2450 INDUSTRIAL BLVD. PHONE 243-3044 GRAND JUNCTION, COLORADO 81501

MOUNTAIN STATES RESOURCES. INC.

NELSON 6-11 VEGA FIELD

NESW SEC 6 T33S R24E SAN JUAN CO. UTAH

ZONE OF INTEREST NO. 3

INTERVAL: From 5702 To 5707

DRILL RATE: Abv 8 MIN/FT Thru 6 MIN/FT Below 8 MIN/FT

MUD GAS-CHROMATOGRAPH DATA (PPM)

	Total Gas	C1	C2	C3	C4-i	C4-n	C5	He	
Before	2 UNITS	--	--	--	--				
During	32 UNITS	750	450	34	--				
After	20 UNITS	307	170	--	--				

Type gas increase: Gradual [X] Sharp [ ]

Gas variation within zone: Steady [X] Erratic [ ] Increasing [ ] Decreasing [ ]

CARBIDE HOLE RATIO: GRAMS / READING X Min. in Peak = _____ Sensitivity: Poor [ ] Fair [ ] Good [X]

FLUO: Mineral [ ] Even [ ] Spotty [X]
None [ ] % in total sample 1%
Poor [X]
Fair [ ] % in show lithology 1%
Good [ ] COLOR: YELLOW

CUT: None [ ] Streaming
Poor [X] Slow [X]
Fair [ ] Mod [ ]
Good [ ] Fast [ ]
COLOR: _____

STAIN: None [X] Poor [ ] Fair [ ] Good [ ] Live [ ] Dead [ ] Residue [ ] Even [ ] Spotty [ ] Lt. [ ] Dk. [ ]

POROSITY: Poor [X] Fair [ ] Good [ ] Kind _____

LITHOLOGY LS GY-DK GY BRN WH MICXLN SLTY FRM-HD OOL

SAMPLE QUALITY GOOD

NOTIFIED ED DURKEE 2/9/81 **REMARKS:** FRACTURED LIMESTONE

ZONE DESCRIBED BY: JIM VAN METER

ROCKY MOUNTAIN GEO-ENGINEERING CO.

WELL LOGGING — CORE AND WATER ANALYSIS

2450 INDUSTRIAL BLVD. PHONE 243-3044 GRAND JUNCTION, COLORADO 81501

MOUNTAIN STATES RESOURCES. INC.

NELSON 6-11 VEGA FIELD

NESW SEC 6 T33S R24E SAN JAUN CO. UTAH

ZONE OF INTEREST NO. 4

INTERVAL: From 5711 To 5713

DRILL RATE: Abv 8 MIN/FT Thru 8 MIN/FT Below 8 MIN/FT

MUD GAS-CHROMATOGRAPH DATA

(PPM)

	Total Gas	C1	C2	C3	C4-i	C4-n	C5	He	
Before	20 UNITS	307	170	--	--	--	--	--	
During	53 UNITS	1075	664	150	32	32	127	--	
After	10 UNITS	384	266	--	--	--	--	--	

Type gas increase: Gradual [X] Sharp [ ]

Gas variation within zone: Steady [X] Erratic [ ] Increasing [ ] Decreasing [ ]

CARBIDE HOLE RATIO: GRAMS / READING X Min. in Peak = _____ Sensitivity: Poor [ ] Fair [ ] Good [X]

FLUO: Mineral [ ] Even [ ] Spotty [X] 1% % in total sample

None [ ]

Poor [X]

Fair [ ] % in show lithology 1%

Good [ ] COLOR: YELLOW

CUT: None [X] Streaming

Poor [ ] Slow [ ]

Fair [ ] Mod [ ]

Good [ ] Fast [ ]

COLOR: _____

STAIN: None [X] Poor [ ] Fair [ ] Good [ ] Live [ ] Dead [ ] Residue [ ] Even [ ] Spotty [ ] Lt. [ ] Dk. [ ]

POROSITY: Poor [X] Fair [ ] Good [ ] Kind _____

LITHOLOGY LS GY-DK GY WH MICXLN SLTY FRM-HD OOL

SAMPLE QUALITY GOOD

NOTIFIED ED DURKEE 2/9/81 **REMARKS:** FRACTURED LIMESTONE

ZONE DESCRIBED BY: JIM VAN METER

ROCKY MOUNTAIN GEO-ENGINEERING CO.

WELL LOGGING — CORE AND WATER ANALYSIS

2450 INDUSTRIAL BLVD. PHONE 243-3044 GRAND JUNCTION, COLORADO 81501

MOUNTAIN STATES RESOURCES, INC.

NELSON 6-11 VEGA FIELD

NESW SEC 6 T33S R24E SAN JUAN CO. UTAH

ZONE OF INTEREST NO. 5

INTERVAL: From 5770 To 5772

DRILL RATE: Abv 8 MIN/FT Thru 5 MIN/FT Below 8MIN/FT

MUD GAS-CHROMATOGRAPH DATA

(PPM)

	Total Gas	C1	C2	C3	C4-i	C4-n	C5	He	
Before	2 UNITS	66	--	--	--	--	--	--	
During	120 UNITS	1248	630	179	63	63	95	--	
After	3 UNITS	77	--	--	--	--	--	--	

Type gas increase: Gradual ☐ Sharp ☒

Gas variation within zone: Steady ☒ Erratic ☐ Increasing ☐ Decreasing ☐

CARBIDE HOLE RATIO: $\frac{\text{GRAMS}}{\text{READING}}$ X Min. in Peak = _____ Sensitivity: Poor ☐ Fair ☐ Good ☒

FLUO: Mineral ☐ None ☐ Poor ☒ Fair ☐ Good ☐ Even ☐ Spotty ☒ % in total sample 1% % in show lithology 1% COLOR: ORANGE

CUT: None ☐ Poor ☒ Fair ☐ Good ☐ Streaming Slow ☒ Mod ☐ Fast ☐ COLOR: YELLOW

STAIN: None ☐ Poor ☒ Fair ☐ Good ☐ Live ☐ Dead ☒ Residue ☐ Even ☐ Spotty ☒ Lt. ☐ Dk. ☒

POROSITY: Poor ☐ Fair ☒ Good ☒ Kind VUGGY

LITHOLOGY LS GY BRN DK GY WH XLN-MICXLN SLTY CHT NOD DNS OOL

SAMPLE QUALITY GOOD

NOTIFIED ED DURKEE 2/9/81 **REMARKS:** FRACTURED LIMESTONE

ZONE DESCRIBED BY: JIM VAN METER

ROCKY MOUNTAIN GEO-ENGINEERING CO.

WELL LOGGING — CORE AND WATER ANALYSIS

2450 INDUSTRIAL BLVD. PHONE 243-3044 GRAND JUNCTION, COLORADO 81501

MOUNTAIN STATES RESOURCES, INC.

NELSON 6-11

NESW SEC 6 T33S R24E SAN JUAN CO. UTAH

ZONE OF INTEREST NO. 6

INTERVAL: From 5902 To 5904

DRILL RATE: Abv 7 MIN/FT Thru 4½ MIN/FT Below 7 MIN/FT

MUD GAS-CHROMATOGRAPH DATA (PPM)

	Total Gas	C1	C2	C3	C4-i	C4-n	C5	He	
Before	3 UNITS	TR	--	--	--				
During	86 UNITS	536	133	TR	--				
After	3 UNITS	TR	--	--	--				

Type gas increase: Gradual ☐ Sharp ☒

Gas variation within zone: Steady ☒ Erratic ☐ Increasing ☐ Decreasing ☐

CARBIDE HOLE RATIO: GRAMS / READING X Min. in Peak = _____ Sensitivity: Poor ☐ Fair ☐ Good ☒

FLUO: Mineral ☐ Even ☐ Spotty ☒
None ☐ % in total sample 1%
Poor ☐
Fair ☒ % in show lithology 5%
Good ☐ COLOR: ORANGE YELLOW

CUT: None ☐ Streaming
Poor ☒ Slow ☒
Fair ☐ Mod ☐
Good ☐ Fast ☐
COLOR: YELLOW

STAIN: None ☒ Poor ☐ Fair ☐ Good ☐ Live ☐ Dead ☐ Residue ☐ Even ☐ Spotty ☐ Lt. ☐ Dk. ☐

POROSITY: Poor ☒ Fair ☐ Good ☐ Kind _____

LITHOLOGY LS WH GY DK GY TAN XLN-MIC XLN SUC DNS SFT-FRM OCC DOLO

SAMPLE QUALITY GOOD

NOTIFIED ED DURKEE 2/12/81 **REMARKS:** _____

ZONE DESCRIBED BY: JIM VAN METER

ROCKY MOUNTAIN GEO-ENGINEERING CO.

WELL LOGGING — CORE AND WATER ANALYSIS

2450 INDUSTRIAL BLVD. PHONE 243-3044 GRAND JUNCTION, COLORADO 81501

MOUNTAIN STATES RESOURCES, INC.

NELSON 6-11 VEGA FIELD

NESW SEC 6 T33S R24E SAN JUAN CO. UTAH

ZONE OF INTEREST NO. 7

INTERVAL: From 5954 To 5964

DRILL RATE: Abv 6 MIN/FT Thru 5 MIN/FT Below 6 MIN/FT

MUD GAS-CHROMATOGRAPH DATA

(PPM)

	Total Gas	C1	C2	C3	C4-i	C4-n	C5	He	
Before	10 UNITS	--	--	--	--				
During	46 UNITS	536	133	TR	--				
After	10 UNITS	--	--	--	--				

Type gas increase: Gradual [X] Sharp [ ]

Gas variation within zone: Steady [ ] Erratic [X] Increasing [X] Decreasing [ ]

CARBIDE HOLE RATIO: $\frac{\text{GRAMS}}{\text{READING}}$ X Min. in Peak = _____ Sensitivity: Poor [ ] Fair [ ] Good [X]

FLUO: Mineral [ ] Even [ ] Spotty [ ]
None [X] % in total sample _____
Poor [ ]
Fair [ ] % in show lithology _____
Good [ ] COLOR: _____

CUT: None [X] Streaming
Poor [ ] Slow [ ]
Fair [ ] Mod [ ]
Good [ ] Fast [ ]
COLOR: _____

STAIN: None [X] Poor [ ] Fair [ ] Good [ ] Live [ ] Dead [ ] Residue [ ] Even [ ] Spotty [ ] Lt. [ ] Dk. [ ]

POROSITY: Poor [X] Fair [ ] Good [ ] Kind _____

LITHOLOGY SH DK GY BLK CARB SL CALC N SL CALC

SAMPLE QUALITY GOOD

NOTIFIED ED DURKEE 2/12/81 **REMARKS:** CONNECTION AND RIG SERVICE

ALTERED TOTAL GAS READING

ZONE DESCRIBED BY: JIM VAN METER

ROCKY MOUNTAIN GEO-ENGINEERING CO.

WELL LOGGING — CORE AND WATER ANALYSIS

2450 INDUSTRIAL BLVD. PHONE 243-3044 GRAND JUNCTION, COLORADO 81501

MOUNTAIN STATES RESOURCES, INC.

NELSON 6-11 VEGA FIELD

NESW SEC 6 T33S R24E SAN JUAN CO. UTAH

ZONE OF INTEREST NO. 8

INTERVAL: From 5966 To 5970

DRILL RATE: Abv 4 MIN/FT Thru 2.5 MIN/FT Below 6.5 MIN/FT

MUD GAS-CHROMATOGRAPH DATA (PPM)

	Total Gas	C1	C2	C3	C4-i	C4-n	C5	He	
Before	15 UNITS	--	--	--					
During	110 UNITS	518	116	--					
After	15 UNITS	--	--	--					

Type gas increase: Gradual [X] Sharp [ ]

Gas variation within zone: Steady [X] Erratic [ ] Increasing [ ] Decreasing [ ]

CARBIDE HOLE RATIO: GRAMS / READING X Min. in Peak = _____ Sensitivity: Poor [ ] Fair [ ] Good [X]

FLUO: Mineral [ ] Even [ ] Spotty [ ]
None [X] % in total sample _____
Poor [ ]
Fair [ ] % in show lithology _____
Good [ ] COLOR: _____

CUT: None [X] Streaming
Poor [ ] Slow [ ]
Fair [ ] Mod [ ]
Good [ ] Fast [ ]
COLOR: _____

STAIN: None [X] Poor [ ] Fair [ ] Good [ ] Live [ ] Dead [ ] Residue [ ] Even [ ] Spotty [ ] Lt. [ ] Dk. [ ]

POROSITY: Poor [X] Fair [ ] Good [ ] Kind _____

LITHOLOGY SH BLK MICA SFT-HD CARB IP PLTY N-SL CALC

SAMPLE QUALITY GOOD

NOTIFIED ED DURKEE 2/12/81 **REMARKS:** RIG SERVICE ALTERED TOTAL GAS READINGS

ZONE DESCRIBED BY: KEITH CLEM

ROCKY MOUNTAIN GEO-ENGINEERING CO.

WELL LOGGING — CORE AND WATER ANALYSIS

2450 INDUSTRIAL BLVD. PHONE 243-3044 GRAND JUNCTION, COLORADO 81501

MOUNTAIN STATES RESOURCES INC.

NELSON 6-11 VEGA FIELD

NESW SEC 6 T33S R24E SAN JUAN CO. UTAH

ZONE OF INTEREST NO. 10

INTERVAL: From 6128 To 6129

DRILL RATE: Abv 13 Thru 10 Below 15

MUD GAS-CHROMATOGRAPH DATA

	Total Gas	C1	C2	C3	C4-i	C4-n	C5	He	
Before	15	230	33	--	--	--	--		
During	125	460	116	TR	--	--	TR		
After	15	220	30	--	--	--	--		

Type gas increase: Gradual ☐ Sharp ☒

Gas variation within zone: Steady ☒ Erratic ☐ Increasing ☐ Decreasing ☐

CARBIDE HOLE RATIO: $\frac{\text{GRAMS}}{\text{READING}}$ X Min. in Peak = _____ Sensitivity: Poor ☐ Fair ☐ Good ☒

FLUO: Mineral ☐ Even ☐ Spotty ☒
None ☐ % in total sample 1%
Poor ☒
Fair ☐ % in show lithology 5%
Good ☐ COLOR: DULL ORNG

CUT: None ☒ Streaming
Poor ☐ Slow ☐
Fair ☐ Mod ☐
Good ☐ Fast ☐
COLOR: _____

STAIN: None ☒ Poor ☐ Fair ☐ Good ☐ Live ☐ Dead ☐ Residue ☐ Even ☐ Spotty ☐ Lt. ☐ Dk. ☐

POROSITY: Poor ☒ Fair ☐ Good ☐ Kind _____

LITHOLOGY LS- GY-DK GY-WH XLN-MICXLN DNS HD-FRM SL SLTY

SAMPLE QUALITY GOOD

NOTIFIED ED DURKEE **REMARKS:** _____

ZONE DESCRIBED BY: JIM VAN METER

ROCKY MOUNTAIN GEO-ENGINEERING CO.

WELL LOGGING — CORE AND WATER ANALYSIS

2450 INDUSTRIAL BLVD. PHONE 243-3044 GRAND JUNCTION, COLORADO 81501

MOUNTAIN STATES RESOURCES INC.

NELSON 6-11 VEGA FIELD

NESW SEC 6 T33S R24E SAN JUAN CO. UTAH

ZONE OF INTEREST NO. 11

INTERVAL: From 6136 To 6138

DRILL RATE: Abv 15 Thru 11 Below 8

MUD GAS-CHROMATOGRAPH DATA

	Total Gas	C1	C2	C3	C4-i	C4-n	C5	He	
Before	15	220	30	--	--	--	--		
During	110	557	166	24	--	--	TR		
After	70	269	83	--	--	--	--		

Type gas increase: Gradual [X] Sharp [ ]

Gas variation within zone: Steady [X] Erratic [ ] Increasing [ ] Decreasing [ ]

CARBIDE HOLE RATIO: $\frac{\text{GRAMS}}{\text{READING}}$ X Min. in Peak = _____ Sensitivity: Poor [ ] Fair [ ] Good [X]

FLUO: Mineral [X] Even [ ] Spotty [X]
None [ ] % in total sample >1%
Poor [X]
Fair [ ] % in show lithology 1%
Good [ ] COLOR: _____

CUT: None [X] Streaming
Poor [ ] Slow [ ]
Fair [ ] Mod [ ]
Good [ ] Fast [ ]
COLOR: _____

STAIN: None [X] Poor [ ] Fair [ ] Good [ ] Live [ ] Dead [ ] Residue [ ] Even [ ] Spotty [ ] Lt. [ ] Dk. [ ]

POROSITY: Poor [X] Fair [ ] Good [ ] Kind _____

LITHOLOGY LS- GY-DK GY-WH-TAN XLN-FXLN-MICXLN DNS TRANSL OCC CALC FL FRAC

SAMPLE QUALITY GOOD

NOTIFIED ED DURKEE **REMARKS:** _____

ZONE DESCRIBED BY: JIM VAN METER

MOUNTAIN STATES RESOURCES, INC.
Subsidiary of Mountain States Resources, Ltd.
OIL & GAS EXPLORATION & PRODUCTION
OPERATING IN THE ROCKY MOUNTAINS
CBM Building - Box 176 - Cut Bank, Montana 59427 - (406) 873-2235

May 15, 1981

Mr. Nick D. Thomaidis
Southern Division Geologist
MOUNTAIN FUEL SUPPLY CO.
P.O. Box 2329
Farmington, New Mexico 87401

Dear Sir:

Re: MORRIS NELSON #6-11
(Vega Prospect)
San Juan County, Utah

Further to the terms and conditions of our Farmout Agreement, we now take pleasure in enclosing the following:

(1) Daily Completion Report, covering operations of the above captioned well, from April 20th to May 3, 1981. Perforating, acidizing and swab testing Lower Ismay (Piute Knoll Zone).

Trusting you will find everything to your satisfaction, I remain

Yours very truly,

MOUNTAIN STATES RESOURCES, INC.

J.V. Montalban - President

enc:
JVM/jb

cc: R.G. Myers - Manager
Production & Drilling
MOUNTAIN FUEL SUPPLY CO.
P.O. Box 11368
Salt Lake City, Utah 84139

E.F. Durkee
WORLDWIDE EXPLORATION CONSULTANTS, INC.
Capitol Life Bldg. Ste. 1244
225 East 16th Avenue
Denver, Colorado 80203

file

MOUNTAIN STATES RESOURCES, INC.
Subsidiary of Mountain States Resources, Ltd.
OIL & GAS EXPLORATION & PRODUCTION
OPERATING IN THE ROCKY MOUNTAINS
CBM Building - Box 176 - Cut Bank, Montana 59427 - (406) 873-2235

JUM FILE Copy

Daily Completion Report - MSR/MGE-Nelson #6-11 - NESW Sec. 6, T-33S-R24E-San Juan Cty.Utah

4-13-81 Moved on NL Well Service Completion Rig and rigged up. Welded bell nipple on 5½" casing. Tubing on location @ 11 AM. P.U. 4-3/4" diameter bit, bit sub and 191 joints 2-3/8" EUE, 4.7 lb., K-55 tubing. Checked PBTD @ 6138' K.B. SDON.

4-14-81 R.U. power swivel, pump and tank. Drilled cement out from 6138' to 6150' K.B. Tripped out with tubing and bit. R.U. Gearhart-Go and ran CBL, Gamma Ray, and collar locator logs. Logger PBTD 6151' K.B. Logged from 6151'-5300' K.B. Top cement 5480' K.B. Good bond 6109-14' and 6118-50' K.B. Tripped in w/Baker Full Bore Packer w/one joint tail pipe to 5950' K.B. Set packer and pressured up annulus and had communication to tubing. Pulled up packer and reset at different depths with no success. Started tripping out with packer. SDON. Rained hard from noon until dark.

4-15-81 Finished pulling out of hole. Checked packer and re-dress same. Picked up 2-3/8" seating nipple and standing valve. Run in hole @ 321' (5 stands). Set packer and pressured up on back side to 1500 psi. Packer held ok. Pressured up on tubing after every 10 stands (2000 lbs.) no leaks in tubing. Set packer at 5950' and tried pressuring up. Packer would not hold. Fished out standing valve and pressured up on tubing (beneath packer). Packer held ok. Rigged up swab and swabbed well down to 5950'. Rigged up Go-industries and ran in hole with 1-11/16ths tubing gun. Perforated from 6125-6140' w/4 shots per ft. w/ 1-11/16ths glass shots. Released packer. Went down and tagged bottom @ 6151'. Picked up and set packer @ 6100'. Rigged up swab and swabbed tubing down to 3000'. Shut down for night.

4-16-81 Finished swabbing well down @ 10:00 AM. (No show of oil or gas, no fluid entry). Run in hole with tail pipe @ 6140'. Spotted 500 gallons of MSR 28% acid across perfs. Pulled up and set packer @ 5614' and acidized w/500 gallons MSR 28%. Pressure increased to 3000-3300 @ 1½ bbls/minute. Pressure broke back to 1600 lbs with rate increase to 2 bbls/minute with pressure increase to 1800 bbls at end of job. Let set 5 minutes w/no bleed off. Bled off pressure. Run in hole and set packer @ 6100'. Rig up and start swabbing @ 12:30 PM. Pulling swab from seating nipple @ 2:00 PM. (Swabbing back acid water). Had well swabbed down at 2:00 PM. Made swab run once every hour for 4 hrs. with no recovery on last 4 runs. Shut down for the night.

4-17-81 Had 15 psi on tubing. Bled pressure off. Picked up swab and run in hole. Had 300 ft. of fill up overnight. Well swabbed down in 2 runs. Kept 4-6 ft. flare at middle of each swab run. Rigged up Dowell well and acidized with 15 gallons of MSR 28% at 3½ bbls per minute at 2250 psi. ISI 1450 lbs. Let set for 10 minutes with no bleed off. Tore down Dowell well and started swabbing.Started swabbing @ 1 PM. Swabbed down tubing (24 bbls) by 2 PM. Had 6-8' flare while pulling swab. Ran swab each hour for 3 hrs. and recovered 50-100' of spent acid water each hour. (0.2 to 0.4 bbls/hr) SD at 5 PM for weekend.

4-18-81 SITP 45 psi. Completion unit SD for weekend.

4-19-81 SITP 90 psi. Completion unit SD for weekend.

MOUNTAIN STATES RESOURCES, INC.
Subsidiary of Mountain States Resources, Ltd.
OIL & GAS EXPLORATION & PRODUCTION
OPERATING IN THE ROCKY MOUNTAINS
CBM Building - Box 176 - Cut Bank, Montana 59427 - (406) 873-2235

4-20-81 Monday — SITP 110 psi @ 7 AM. Bled well down and gas flow maintained 1' flare. Ran tubing swab and found fluid level @ 5500' depth. (600' fillup or 2.3 bbls in 62 hrs). Swabbed fluid (spent acid water) down in 2 runs. At 9 AM had 2' flare. Tripped out w/Baker fullbore and tripped back in with Baker Model C retrievable bridge plug and retrievamatic packer. Set bridge plug @ 6000' K.B. and packer @ 5734' K.B. Swabbed tubing dry. R.U. Go-International and ran tubing gun with 1-11/16" diameter ceramic jet (100 jets on 25' gun). Tubing gun would only go to 5675' K.B. Would go no further. Pulled out tubing gun and it hung up in every collar to 2800' and then pulled free. Left 88 ceramic jets in hole. P.U. sinker bar and no go nipple and stopped at 5500' K.B. Worked down to 5525' K.B. Pulled out. SDON.

4-21-81 Tuesday — R.U. pump. Released Retrievamatic packer. Pumped down annulus. Pressured annulus to 2800 psi and pressure broke back to 200 psi. Circulated out glass jets and primer cord. Lowered tubing and circulated hole clean to top of bridge plug. Retrieved bridge plug and tripped out. Layed down packer and bridge plug. Drained pump. W.O. drilling equipment to drill hole deeper.

4-22-81 Wednesday — P.U. 4-3/4" HTC WO bit and 10-3½" diameter drill collars. Tripped in to bottom Mixed up mud and displaced hole mud.

4-23-81 Thursday — Started drilling at 9:25 AM @ 6151' K.B. Went out of show at 6155' K.B. and drilled to 6205' K.B. Drilling dolomite, brown. Bit #1 4-3/4" HTC WO. 6151-6205' K.B. 9 hrs. 10000 lbs, 85 to 100 RPM. 1000 psi, 4½ x 8" pump. Mud 10.2, lbs., 34 ris, 28 cc.

4-24-81 Friday — Picked up 2 jts. tubing, started drilling @ 8 AM. Depth 6205'. Drilled to 6214' & bit quit drilling. Started out of hole @ 11:45 AM, back to drilling @ 5:15 PM, drilled to 6218'. Pulled 3 jts. SDON. Bit #1: 4-3/4", Hughes #WO, 6151' to 6214', 63' in 13 hrs. Bit #2: 4-3/4", Smith, V-2, in @ 6214'. MW 10.2, Vis. 32, W.L. 21.6. Total mud cost $1,033 (plus brine & Drayage)

4-25-81 Saturday — Started drilling @ 8 A.M. Drilled 6218'-6237'. SD @ 1 PM. Pulled up into casing. Rigged up to swab. Started swabbing @ 1:45 P.M. @ 6:30 PM had well swabbed down to 4200'. SDON.

4-26-81 Sunday — Hauled 400 bbls fresh water to swab tank to use for acidizing. Continued swabbing. Unloaded hole. Making gas 3-4' flare after each swab run. SDON.

4-27-81 Monday — 40 psi on tubing. Started swabbing @8AM. Found fluid level @ 5200' depth. Swabbed well down @11AM. From 11 AM to 1 PM ran swab once each hour with no fluid recovery but hole making gas w/4' flare. Estimate gas @100 MCF. Tripped out and layed down drill collars. SDON.

4-28-81 Tuesday — P.U. Arrow Model A retrievable bridge plug and full bore packer. Tripped in w/2-3/8" EUE tubing and set retrievable bridge plug @5999' K.B. Set packer @5655' K.B. Swabbed down tubing. W.O. perforators. Go-International on location at 2:15 PM. R.U. Go and perf 5955-5980' K.B. and 5900-5905' K.B. w/4 jets/ft. w/1-11/16 glass jets on tubing gun. SDON.

MOUNTAIN STATES RESOURCES, INC.
OIL & GAS EXPLORATION & PRODUCTION
ROCKY MOUNTAINS – WESTERN CANADA

Daily Completion Report - MSR/MGE-Nelson #6-11 - NESW Sec. 6, T-33S-R24E-San Juan Cty.Utah

4-29-81 Wednesday – Lowered packer so tailpipe was below perfs 5900-05' K.B. R.U. Dowell. Loaded hole w/water and spotted acid across perfs. Set packer @5925' K.B. Acidized perfs 5955-80' K.B. w/500 gals 28% MSR acid. Perfs started taking acid @3100 psi and pressure broke back to 2000 psi. Increased injection rate to 4 BPM @ 2200 psi. ISIP 1400 psi, 5 mins., 1400 psi, 10 mins., 1300 psi. Started swabbing @10:30 AM. Well swabbed down @1 PM. Ran swab once each hour from 1 PM to 6 PM. Rec. 100' acid water (0.4 bbls) from 1 to 4 PM and last two runs at 5 and 6 PM. Had no fluid, but well making gas - 5' to 6' flare burning throughout swabbing. Estimate gas at 350 MCF. SDON @ 6:30 PM.

4-30-81 hursday – Set BP @ 5928' K.B. Spotted acid across perfs 5900-05' K.B. Set packer @ 5860' K.B. w/31' tailpipe and acidized w/500 gals. 28% MSR. Pumped 2 BPM @ 2800 psi. Broke from 2800 to 2200 psi. last rate to 4 BPM @ 2200 psi. ISIP 1300 psi, 5 mins., 1300 psi, 10 mins., 1300 psi, R.U. and started swabbing @ 10 AM. Swabbed down @ 12 noon. 1 PM to 6 PM one run/hr. Recovered 100' acid water and raw acid/hr. @ 3PM 50% oil and 50% unspent acid. 3' flare on end of flowline. 4 PM - 60% oil and 40% acid water. 5 PM - 80% live green gassy oil - 20% acid water. 6' - 8' flare. 6 PM - last run of day pulled 220' of live green gassy oil, trace of acid water at end of pull. 6' flare throughout pull. Estimate gas @ 250 MCF. SDON.

5-01-81 iday – SITP 235 psi @ 8 AM. Released pressure and ran swab. 600' fluid fillup overnight. Recovered 550' (2.0 bbls) oil w/trace of acid water. R.U. Dowell and tested lines to 6000 psi. Placed 1200 psi pressure on annulus. Acidized perfs 5900-05' K.B. w/2000 gals. 28% HCL acid. Dropped 15 perforation ball sealers in first 30 bbls acid w/no ball action. Started pumping into perfs @ 3300 psi and 5 BPM inj. rate. Increased pressure to 3500 psi @ 6 BPM and remained the same thru balance of acid job. ISIP 1500 psi, 5 mins., 1450 psi. 10 mins., 1425 psi. Job complete @ 9:20 AM. Started swabbing tubing @ 9:45 AM and swabbed down @ 1 PM. Ran swab once each hour. 2 PM - recovered about 300' of oil and acid water. 3 PM, 4 PM, and 5 PM ran swab. Recovery as above w/oil cut increasing and good gas blow increasing. At 6 PM had 300' of 90% green gassy oil and 10% acid water.

5-2-81 urday – SITP 280 psi @ 7:30 AM. Ran swab and had 2000' fillup in 13½ hrs. Swabbed down in 3 runs (9:30 AM).1-run/all oil, 2nd run 95% oil and 3rd run oil with trace acid water. After swabbing down had 6' to 8' flare of gas burning. Ran swab once each hour to noon. Swabbed into tank. Recovered 2 bbls of green oil per hour, measured in swab tank. S.D. for weekend @12:30 PM.

5-3-81 day – Shut down. Well producing gas on orifice tester.
Flowed and measured gas at rate of 287 MCF over week-end.
No rig operating.

BM BUILDING - BOX 176 - CUT BANK, MONTANA 59427 - (406) 873-2845

MOUNTAIN STATES RESOURCES, INC.
Subsidiary of Mountain States Resources, Ltd.
OIL & GAS EXPLORATION & PRODUCTION
OPERATING IN THE ROCKY MOUNTAINS
CBM Building - Box 176 - Cut Bank, Montana 59427 - (406) 873-2235

June 11, 1981

STATE OF UTAH
Department of Natural Resources
Division of Oil, Gas, and Mining
1588 West North Temple
Salt Lake City, Utah 84116

Attention: Sandy Bates - Clerk Typist

Re: MSR/MGE Nelson #6-11 Well
Sec. 6 - T33S - R24E
San Juan County, Utah
(Our Vega Prospect)

Gentlemen:

This will acknowledge receipt of your letter, dated June 9, 1981, requesting a monthly drilling report for the above captioned well, in which you request well reports on your Form OGC-1B, or a summary report on Company forms.

Accordingly, we take pleasure in enclosing herewith a daily drilling summary, pertaining to the above captioned well, from date of inception, September 22, 1980, to February 16, 1981, when drilling was completed.

Thanking you for drawing our attention to this oversight, we remain

Yours very truly,

MOUNTAIN STATES RESOURCES, INC.

J. V. Montalban - President

JVM/cbm
Encs:

MOUNTAIN STATES RESOURCES, INC.
Subsidiary of Mountain States Resources, Ltd.
OIL & GAS EXPLORATION & PRODUCTION
OPERATING IN THE ROCKY MOUNTAINS
CBM Building - Box 176 - Cut Bank, Montana 59427 - (406) 873-2235

June 11, 1981

STATE OF UTAH
Department of Natural Resources
Division of Oil, Gas, and Mining
1588 West North Temple
Salt Lake City, Utah 84116

Attention: Sandy Bates - Clerk Typist

Gentlemen:

Re: MSR/MGE Nelson #6-11 Well
Sec. 6 - T33S - R24E
San Juan County, Utah
(Our Vega Prospect)

This will acknowledge receipt of your letter of June 9, 1981, requesting well completion data on the above captioned well.

Please be advised that we are now in the process of completing said well, and readying it for production. We are expecting delivery of wellhead equipment and a pumping unit, in the next few days. After this equipment has been installed, and the well is completed and on production, we will promptly and orderly file your Form OGC-3, in triplicate, as you have advised.

Thanking you for drawing this to our attention, and thanking you for past courtesies, we remain

Yours very truly,

MOUNTAIN STATES RESOURCES, INC.

J. V. Montalban - President

JVM/cbm

STATE OF UTAH
NATURAL RESOURCES & ENERGY
Oil, Gas & Mining

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Cleon B. Feight, Division Director

April 23, 1982

Mountain States Resources, Inc.
CBM Building
P. O. Box 176
Cut Bank, Montana 59427

RE: Failure to comply with the General Rules and Regulations and Rules of Practice of the Division of Oil, Gas and Mining

Gentlemen:

Records maintained by the Division of Oil, Gas and Mining indicate that you have failed to respond to numerous requests for information on the Redd 11-1 and Nelson 6-11 wells located in San Juan County, Utah.

Be advised that if accurate information regarding all activities and production on the aforesaid wells is not received by May 3, 1982, I shall schedule an Order to Show Cause before the Board of Oil, Gas and Mining. Among the measures I shall request the Board to approve is a moratorium on all your future drilling applications and operations.

Perhaps up to this point you have not realized the serious possible consequences of your failure to comply with the Division's regulations. The situation is serious and unwarranted. Furthermore, it will not be allowed to persist.

It is my wish that this matter be resolved without compelling you to appear before the Board of Oil, Gas and Mining. Therefore, if I can be of any further assistance, please do not hesitate to contact me.

Very truly yours,

DIVISION OF OIL, GAS AND MINING

Carolyn Driscoll

Carolyn Driscoll
Special Assistant Attorney General

CD/as

STATE OF UTAH
NATURAL RESOURCES & ENERGY
Oil, Gas & Mining

Scott Matheson, Governor
Temple A. Reynolds, Executive Director
Cleon Feight, Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

April 30, 1982

Memo to File

From: Carolyn Driscoll

On April 30, 1982 I talked with Mrs. Montalban of Mountain States Resources, Inc. The operations manager will be in Canada for another week. Therefore, I gave them an extension of time to file the requested information.

I was informed that neither well has been completed. However, it is anticipated that they will be completed this summer.

The operator is a Canadian corporation operating out of Montana. This is their first Utah venture. They were under the impression that since they felt the information was confidential they did not have to submit any information. I think I got this misunderstanding straightened out. The operator was informed that the information has to be submitted to the Division. However, if requested, the Division will keep it confidential.

STATE OF UTAH
NATURAL RESOURCES & ENERGY
Oil, Gas & Mining

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Cleon B. Feight, Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

September 28, 1982

Mountain State Resources, Inc.
CBM Building
Box 176
Cut Bank, Montana 59427

RE: MSR Nelson #6-11 Well
Sec. 6, T. 33S, R. 24E
San Juan County, Utah

Gentlemen:

The above referenced well was inspected on September 3, 1982 by Division staff personnel. At the time of inspection, the well was producing on pump and it appears that the well has been tested sufficiently to adequately determine the initial production potential.

The Division therefore requests that the Well Completion Report (copies attached) be submitted indicating the required initial production data. The Division has extended sufficient leniency regarding this matter in the past and request that the required data be promptly submitted so this matter might be concluded.

Very truly yours,

R. J. Firth
Chief Petroleum Engineer

RJF/as
Attachment

MOUNTAIN STATES RESOURCES, INC.
A Subsidiary of MSR Exploration Ltd.
OIL & GAS EXPLORATION & PRODUCTION
OPERATING IN THE ROCKY MOUNTAINS
CBM Building - Box 176 - Cut Bank, Montana 59427 - (406) 873-2235

October 13, 1982

STATE OF UTAH
Natural Resources & Energy
4241 State Office Building
Salt Lake City, Utah 84114

Attn: Mr. R.J. Firth
Chief Petroleum Engineer

Re: MSR Nelson #6-11 Well
Sec. 6, T.33S, R.24E
San Juan County, Utah

Dear Mr. Firth:

We have not filed the Completion Report on the above captioned well as we are now attempting to evaluate the results obtained to date.

We have been pumping this well periodically for the last two months but the results and the production obtained, have been very disappointing. The well originally I.P.'d for 41 barrels of oil per/day and 10 of water, but production rapidly declined to 5 barrels per/week. We are only pumping the well a couple of days each week.

Accordingly, we are presently attempting to evaluate the data that we have in hand to decide whether or not we should pull the well and re-acidize the producing zones or suspend the well. This decision will be made in the next fortnight. In the meantime, for your informal records and files, please be advised of the following perforating intervals:

Formation	Interval	Perforation	Treatment	Production
Desert Creek	6125-6140'	4 shots/per/ft.	500gal. MCR 28%	4' - 6' Flare Tested gas 50/MCF
Lower Ismay	5955-5980'	4 shots/per/ft.	500gal. MCR 28%	Tested gas 50/MCF
Upper Lower Ismay	5900-5905'	4 shots/per/ft.	500gal. HCL 28%	Tested gas 287/MCF - Swabbed oil 1 b/per/hr
Lower Upper Ismay	5760-5780'	2 shots/per/ft.	500gal. MCR 28% Re-acid.3000gal. 28% HCL	Swabbed oil 2b/per/hr 85% oil - 15% acid water
Upper Ismay	5690-5710'	4 shots/per/ft.	500gal. MCR 28% Re-acid.2000gal. 28% HCL	600' green/oil 600' acid water Swabbed 2b/per/hr 55% oil & 45% spent acid water

MOUNTAIN STATES RESOURCES, INC.
A Subsidiary of MSR Exploration Ltd.
OIL & GAS EXPLORATION & PRODUCTION
OPERATING IN THE ROCKY MOUNTAINS
CBM Building - Box 176 - Cut Bank, Montana 59427 - (406) 873-2235

As soon as our decision is made to re-perforate and re-acidize, or suspend operations, we will file the official log of the well.

Yours very truly,

MOUNTAIN STATES RESOURCES, INC.

Jean Bendure/for

J.V. Montalban - President

JVM/j

MOUNTAIN STATES RESOURCES, INC.

A Subsidiary of MSR Exploration Ltd.

OIL & GAS EXPLORATION & PRODUCTION

OPERATING IN THE ROCKY MOUNTAINS

CBM Building - Box 176 - Cut Bank, Montana 59427 - (406) 873-2235

December 20, 1982

STATE OF UTAH
Natural Resources & Energy
4241 State Office Building
Salt Lake City, Utah 84114

Attn: Mr. R.J. Firth
Chief Petroleum Engineer

Re: MSR/MGE Nelson #6-11 Well
Sec. 6, T.33S, R.24E
San Juan County, Utah

Dear Mr. Firth:

We enclose herewith the Completion Log of well pertaining to the above captioned. Please excuse the delay for this final report, but we have been evaluating production results for the last several weeks. The well has turned out to be a disappointment. When production tests were started the well I.P.'d for 41 barrels a day and within 60 days was producing nothing on a daily basis. During November the well was pumped once a week, making less than 5 barrels at a time.

Accordingly, as of December 1, 1982, the well has been shut-in and will be suspended until next spring.

If you require any further information, kindly advise us.

Very truly yours,

MOUNTAIN STATES RESOURCES, INC.

J.V. Montalban, P.E.
Manager of Operations

JVM/j
Enc:

Form OGC-3

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUBMIT IN DUPLICATE* (See other instructions on reverse side)

(4) 56 64 01

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] DRY [ ] Other

b. TYPE OF COMPLETION: NEW WELL [ ] WORK OVER [ ] DEEP-EN [ ] PLUG BACK [ ] DIFF. RESVR. [ ] Other

2. NAME OF OPERATOR: Mountain States Resources, Inc.

3. ADDRESS OF OPERATOR: CBM Bldg. - Box 176 - Cut Bank, Montana 59427

RECEIVED DEC 17 1982 DIVISION OF OIL, GAS & MINING

4. LOCATION OF WELL (*Report location clearly and in accordance with any State requirements*)*
At surface: 2,130' FSL 1,820' FWL NESW
At top prod. interval reported below: As above
At total depth: As above

5. LEASE DESIGNATION AND SERIAL NO.:

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Fee

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: Morris Nelson

9. WELL NO.: #11

10. FIELD AND POOL, OR WILDCAT: Wildcat (Vega Prospect)

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: Sec. 6-T33S-R24E-SLM

14. PERMIT NO.	DATE ISSUED	12. COUNTY OR PARISH	13. STATE
43-037-30554	May 23,1980	San Juan	Utah

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (*Ready to prod.*)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
1-20-81	2-15-81	Sept. 1981	6,915 GL 6,925KB	6916 ground

20. TOTAL DEPTH, MD & TVD	21. PLUG, BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
6155'	6125'	two	→	rotary	none

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
Desert Creek - 6125 - 6140 - gas - 50 mcf/d
Lower Ismay - 5900-5905 - gas 287mcf/d + swabbed 1bbl/per hr.
~~Upper Ismay - 5760 - 80 - 5690-5710 - swabbed 2 bbls/hr oil and water~~

25. WAS DIRECTIONAL SURVEY MADE: none

26. TYPE ELECTRIC AND OTHER LOGS RUN
Schlumberger: Dual induction SFL, ~~Comp.Neutron-Density-Cyberlook~~ mud

27. WAS WELL CORED: no

28. CASING RECORD (*Report all strings set in well*)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13 3/8	40#	50'	17"	10 sax	nil
8 5/8	24#	2236'	12½"	750 sax	nil
5 1/2	15.5#	6155'	7 7/8	150 sax	nil

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)
none				

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 3/8 EUE	6115	none

31. PERFORATION RECORD (*Interval, size and number*)
6125 - 6140 - 4 shots/ft. 1 11/16 glass
5900 - 5905 - 4 shots/ft. 1 11/16 glass
5760 - 5770 - 4 shots/ft. 1 11/16 glass
5770 - 5780 - 2 shots/ft. 1 11/16 glass

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
6125 - 6140	500 gal MCR 28% Acid
5955 - 5980	500 gal MCR 28% acid
5900 - 5905	2000 gal HCL 28% acid
5760 - 5780	2000 gal HCL 28% acid

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (*Flowing, gas lift, pumping—size and type of pump*)	WELL STATUS (*Producing or shut-in*)
Sept. 1982	Pumping 2"x12'x1½" top hold down	shut in

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD →	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
Sept. 82	24 hrs pump	nil		41	trace	5 bbls	nil

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE →	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
10#	450#		41	trace TSM	5	42

34. DISPOSITION OF GAS (*Sold, used for fuel, vented, etc.*)
Used for lease fuel(pump) motor

TEST WITNESSED BY: J. Montalban-R.Roncco

35. LIST OF ATTACHMENTS
See reverse side

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED J. W. Montalban TITLE Manager of Operations DATE Dec. 15, 1982

*(See Instructions and Spaces for Additional Data on Reverse Side)

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.
If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.
Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.
Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.
Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.
Item 29: *"Sacks Cement":* Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.
Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

Final Geological Report by Worldwide Exploration Consultants.
Containing Summary of Well,
Log Tops,
Surveyor Plat,
Stratography Report - Sample Description

37. SUMMARY OF POROUS ZONES:
SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

38. GEOLOGIC MARKERS

FORMATION	TOP	~~BOTTOM~~ Depth	DESCRIPTION, CONTENTS, ETC.	NAME	TOP MEAS. DEPTH	TOP TRUE VERT. DEPTH
Dakota Sandstone	surface	+6,915'				
Morrison Formation	240'	+6,685'				
Summerville Form.	390'	+6,535'				
Curtis Formation	680'	+6,245'				
Entrada Formation	760'	+6,165'				
Carmel Formation	950'	+5,975'				
Navajo Formation	1,065'	+5,860'				
Kayenta Formation	1,220'	+5,705'				
Wingate Formation	1,420'	+5,505'				
Chinle Formation	1,720'	+5,205'				
Shinarump Formation	2,575'	+4,350'				
Moenkopi Formation	2,796'	+4,129'				
Cutler Formation	2,870'	+4,056'				
Hermosa Formation	3,750'	+3,776'				
Honaker Trail	4,625'	+2,301'				
Paradox	5,351'	+1,577'				
Upper Ismay	5,681'	+1,245'				
Second Shale	5,820'	+1,106'				
Piute Knoll	5,834'	+1,092'	(Lower Upper Ismay)			
Lower Ismay Shale	5,918'	+1,008'				
Lower Ismay Lst.	5,986'	+ 940'				
"B" Zone Shale	6,044'	+ 882'				
Desert Creek	6,102'	+ 824'				
Salt	6,144'	+ 782'				

Form OGC-2

Bond # 5056108

State of Utah
Department of Natural Resources
Division of Oil Gas and Mining

BOND

Know all men by these presents,

That
We: Mountain States Resources, Inc., a Montana Corporation, Box 176, Cut Bank
County of Glacier in the State of Montana
as Principal,
and Hartford Accident and Indemnity Company of Hartford, Connecticut
as sureaty, authorized to do business in this State, are held and firmly bound unto the State in the penal sum as indicated, for the use and benefit of the Division of Oil, Gas and Mining, lawful money of the United States, for which payment, well and truly to be made to the State of Utah, we bind ourselves, and each of us,and each of our heirs, executors, administrators or successors, and assigns jointly and severally, firmly by these presents.

The condition of this obligation is that whereas the above bounden principal proposes to drill a well or wells for oil, gas or stratigraphic purposes in and upon the following described land situated in the State of Utah, to-wit:

Statewide fee acerage

Now, therefore, if the above bounden principal shall comply with all of the provisions of the laws of this State, and the rules, regulations and orders of the Division of Oil, Gas and Mining of the State, all notices and records required by said office, including, but not limited to the proper plugging of said well or wells, and filing with said Division of the State, then this obligation is void; otherwise, the same shall be and remain in full force and effect.

Penal sum of Fifty Thousand Dollars********** ($50,000.00) to the State of Utah

Witness our hands and seals, this 20 day of December, 1983.

Principal

Witness our hands and seals, this 20 day of December, 1983

Attorney-in-Fact

Surety

RECEIVED
DEC 21 1983

Approved as to form and execution:

ATTORNEY GENERAL

By: _____
Date _____

Countersigned:
Dye, Tavary & Judge, Inc.
By: _____
Montana Resident Agent

Form OGC-1b

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUBMIT IN TRIPLICATE
(Other instructions on reverse side)

5. LEASE DESIGNATION AND SERIAL NO.: FEE

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: D/N/A

7. UNIT AGREEMENT NAME: D/N/A

8. FARM OR LEASE NAME: Morris Nelson

9. WELL NO.: 6-11

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 6,T33S,R24E,S.L.M.

12. COUNTY OR PARISH: San Juan

13. STATE: Utah

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL [X] GAS WELL [ ] OTHER

2. NAME OF OPERATOR: MOUNTAIN STATES RESOURCES, INC.

3. ADDRESS OF OPERATOR: CBM Bldg. - P.O. Box 1995 - Cut Bank, Montana 59427

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface
NE¼ SW¼ Sec. 6
1820' FWL and 2130' FSL

RECEIVED
JUN 15 1984
DIVISION OF OIL
GAS & MINING

14. PERMIT NO.: 42-037-30554

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 6915 GL

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	[ ]	PULL OR ALTER CASING	[ ]	WATER SHUT-OFF	[ ]	REPAIRING WELL	[ ]
FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]	FRACTURE TREATMENT	[ ]	ALTERING CASING	[ ]
SHOOT OR ACIDIZE	[ ]	ABANDON*	[X]	SHOOTING OR ACIDIZING	[ ]	ABANDONMENT*	[ ]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]	(Other)			[ ]
(Other)			[ ]	(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

MOUNTAIN STATES RESOURCES, INC. proposes to plug and abandon this well because commercial production has not been attained. All work will be done in accordance to UOGCC regulations. The proposed procedure is as follows:

1. Set 5½" CIBP at 5600' KB.
2. Spear 5½" casing and remove slips.
3. Run free point survey to determine free point of 5½" casing.
4. Run string shot and back off 5½" casing at free point.
5. TOOH and lay down 5½" casing.
6. RIH with 2 3/8" tubing and spot 75 sx Class B cement across 5½" casing stub.
7. Fill hole with 9.0 ppg fresh water gel mud to bottom of 8 5/8" casing at 2236' KB.
8. Spot 25 sx Class B cement across bottom of 8 5/8" casing at 2236' KB.
9. Remove casing head and spot 10 sx Class B cement at surface.
10. Erect dry hole marker and clean up location.

This work will commence as soon as regulatory approval is received.

18. I hereby certify that the foregoing is true and correct

SIGNED Reno N. Roncco
Reno N. Roncco, Pet. Eng. TITLE Area Superintendent DATE June 13, 1984

(This space for Federal or State office use)

APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING
DATE: 6/19/84
BY: John R. Baza

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

(1) Casing annuli at surface to be plugged w/ at least 10 sx per rule D-1(b)(3)

*See Instructions on Reverse Side

STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Dianne R. Nielson, Ph.D., Executive Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

September 23, 1986

Mr. J. V. Montalban
Mountain States Resources Inc.
CBM Building, Box 176
Cutbank, Montana 59427

092501

Dear Mr. Montalban:

RE: Morris Nelson Well No. 6-11, Sec.6, T.33S,R.24E,
San Juan County, Utah

The Division of Oil, Gas and Mining has recently received a request from the mineral lease owner of the subject well, Mr. Morris Nelson. Mr. Nelson asked that the Division take action to require the plugging and abandonment of the subject well, as was proposed in a sundry notice from your company dated June 13, 1984, and approved by this Division on June 19, 1984. Although the Division cannot enforce the requirements of private lease agreements, you are encouraged to resolve this matter as quickly as possible to aviod any further action by the Board of Oil, Gas and Mining or through civil action by the mineral lease owner.

Enclosed is a copy of the oil and gas inspection report dated August 5, 1985, which indicates that the well remains unplugged and unreclaimed. Although you have indicated your intent to abandoned the well, the substantial length of time which has elapsed since you submitted the original sundry notice is a concern to the Division. If the well remains inactive and unplugged, it could develop into a potential ground water pollution hazard.

We ask that you respond directly to this office within 15 days from the date of this letter, indicating your plans to resolve this matter. Thank you for your prompt consideration of this request.

Sincerely,

John R. Baza
Petroleum Engineer

cc: Mr. Morris Nelson
D. R. Nielson
R. J. Firth
Well File
0288T-104

THE HARTFORD

Midwestern Bond Underwriting Center
100 Park Plaza
Naperville, Illinois 60566
Telephone: (312) 369-2100

DATE: Sept 26, 1986

BOND NO. 5056108

Gentlemen:

RE: Mountain States Resources # 5056108

Please inform us regarding the number of permits covered by the captioned blanket drilling and/or lease bond.

We are not willing to accept any additional liability under the captioned bond, effective 12-20-86. Would you please confirm to us that this request has been accepted. A self addressed, stamped envelope is enclosed for your convenience.

Very truly yours,

BY: [signature]
Attorney-in-Fact

STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Norman H. Bangerter, Governor
Dee C. Hansen, Executive Director
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

October 17, 1986

The Hartford Insurance Group
Naperville Office Park
100 Park Plaza
Naperville, Illinois 60566

Attention: Mary Fox

Gentlemen:

Re: Blanket Bond #5056108 - Mountain States Resources, Inc.

In regards to your letter dated September 26, 1986, our records indicate that there are three wells that are covered under the above-referenced surety.

These wells include:

Edis Calvert #1 - Sec. 35, T. 34S, R. 25E - San Juan County
Redd #11-1 - Sec. 11, T. 33S, R. 23E - San Juan County
Morris Nelson 6-11 - Sec. 6, T. 33S, R. 24E-San Juan County

Additional liability will be limited to the above listed wells. If further information is needed regarding this surety, please feel free to contact me.

Sincerely,

Arlene Sollis

Arlene Sollis
Administrative Analyst

cc: Mountain States Resources
D. R. Nielson
R. J. Firth
John R. Baza
8989T-60

MOUNTAIN STATES RESOURCES, INC.
A Subsidiary of MSR Exploration Ltd.
OIL & GAS EXPLORATION & PRODUCTION
OPERATING IN THE ROCKY MOUNTAINS
CBM Building - Box 1995 - Cut Bank, Montana 59427-1995 - (406) 873-2235

#50,000

43-037-30554
NE/SW Sec 6 - 33S - 24E
Morris Nelson 6-11
Fee

November 27, 1984

Mr. Morris E. Nelson
176 Blue Mtn. Blvd.
Monticello, Utah 84535

RE: Oil & Gas Lease
Morris E. Nelson
Vega Prospect
San Juan County, Utah

Dear Morris:

We enclose herewith our check #12014, in the amount of $310.42, which represents rental for one year (11/4/84 - 11/4/85) on the above captioned lease.

We are paying you this rental as we have not yet completed the plugging and abandoning of your well - which will be done next spring.

We gave it the old "college try" and tried to make a commercial producer out of the Nelson #6-11 - but, old mother nature's bosum just did not want to yeild to our efforts.

Yours very truly,

MOUNTAIN STATES RESOURCES, INC.

J. V. Montalban - Mgr. of Operations

JVM/cbm
Enc:

MOUNTAIN STATES RESOURCES, INC.
A Subsidiary of MSR Exploration Ltd.
OIL & GAS EXPLORATION & PRODUCTION
OPERATING IN THE ROCKY MOUNTAINS
CBM Building - Box 1995 - Cut Bank, Montana 59427-1995 - (406) 873-2235

9:10 AM

May 15, 1986
Oct 16-86 (681-7105) Talked to (Son) Pat Mar 17-94
801-529-3816
Said he would send copy of this letter

Mr. Morris E. Nelson
176 Blue Mountain Rd.
Monticello, Utah 84535

RE: Release of Oil and Gas Lease
Morris Nelson #6-11

Io to call back
Joe called 3/24/94 said he would send me a new copy

Dear Mr. Nelson:

Enclosed please find the " Release of Oil and Gas Release " you requested from us some time ago.

We do apologize for the time lapse in answering your request. Mr. Montalban has been in the office only briefly the past few months, due to an operation last fall. He is just now getting his correspondence caught up.

Trusting all is in order, I remain

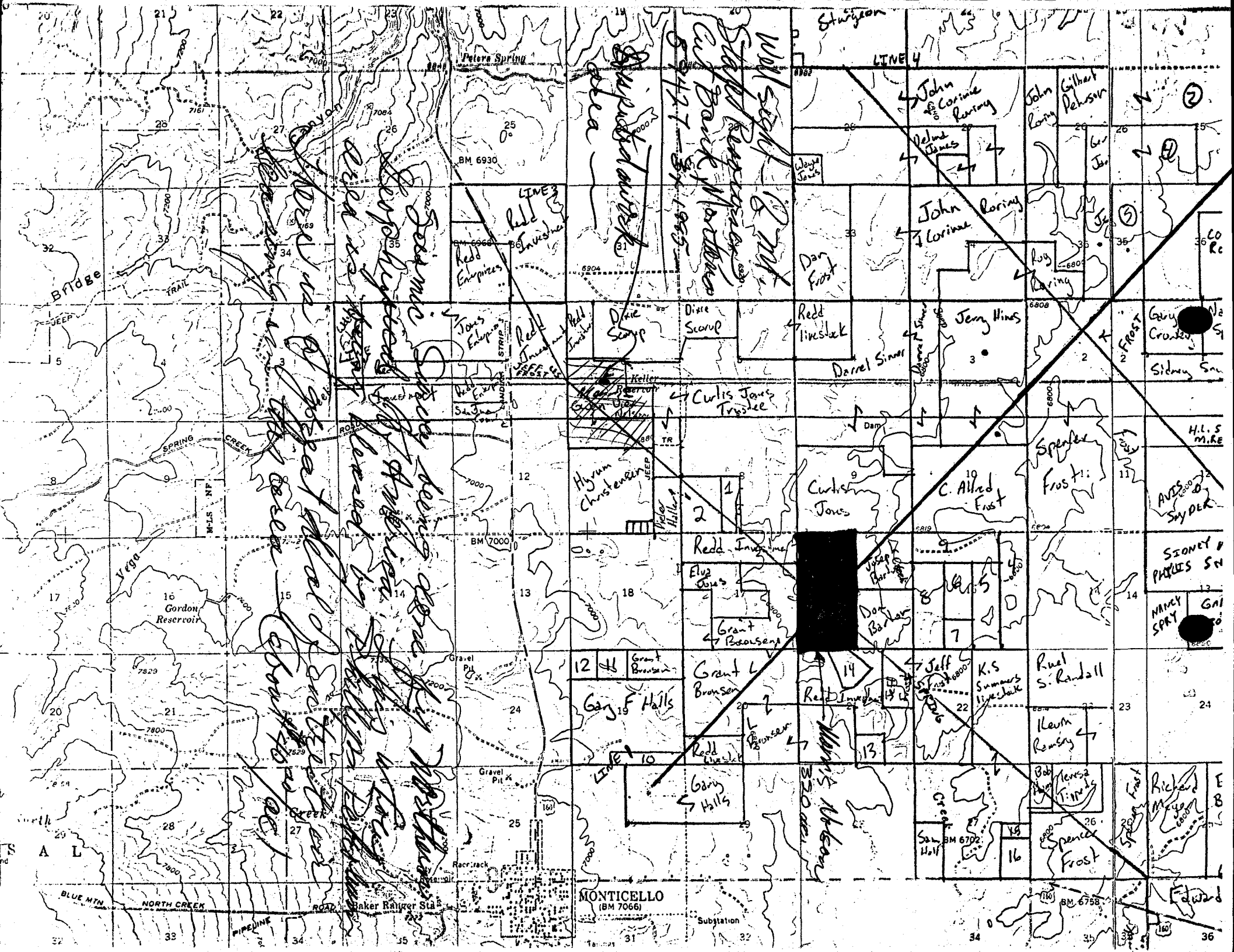
Called Louise C. Recorder for San Juan Cty 3/24/94

Sincerely,

MOUNTAIN STATES RESOURCES, INC.
Evelyn Anderson
Evelyn Anderson, Secretary

EA/me
Enc:

Ask - plug
State Records
93 - Not plugged


Petera Spring
BM 6930
Bridge
TRAIL
JEEP
SPRING
CREEK
Vega
Gordon Reservoir
Keller Reservoir
Hyrum Christensen
Victor Haller
Curtis Jones Trustee
Redd Investment
Redd Livestock
Dixie Scoop
Darrel Sinor
Jerry Hines
John Corinne Roring
John Roring
Gilbert Peterson
Delmar Jones
Wayne Jones
Dan Frost
C. Allred Frost
Spencer Frost
Grant Bronsen
Gary F Halls
Gary Halls
K.S Summers livestock
Ruel S. Randall
Ileen Ramsey
Jeff Frost
Don Barlow
Gravel Pit
Racetrack
MONTICELLO
(BM 7066)
Substation
Baker Ranger Sta
BLUE MTN
NORTH CREEK
ROAD
PIPELINE
M-LS
NF
LINE 4
LINE 3
LINE 1
LINE 10
320 acres

MOUNTAIN STATES RESOURCES, INC.
A Subsidiary of MSR Exploration Ltd.
OIL & GAS EXPLORATION & PRODUCTION
OPERATING IN THE ROCKY MOUNTAINS
CBM Building - Box 1995 - Cut Bank, Montana 59427-1995 - (406) 873-2235

November 27, 1984

Mr. Morris E. Nelson
176 Blue Mtn. Blvd.
Monticello, Utah 84535

RE: Oil & Gas Lease
Morris E. Nelson
Vega Prospect
San Juan County, Utah

Dear Morris:

We enclose herewith our check #12014, in the amount of $310.42, which represents rental for one year (11/4/84 - 11/4/85) on the above captioned lease.

We are paying you this rental as we have not yet completed the plugging and abandoning of your well - which will be done next spring.

We gave it the old "college try" and tried to make a commercial producer out of the Nelson #6-11 - but, old mother nature's bosum just did not want to yeild to our efforts.

Yours very truly,

MOUNTAIN STATES RESOURCES, INC.

J. V. Montalban - Mgr. of Operations

JVM/cbm
Enc:

MOUNTAIN STATES
RESOURCES, INC.

DETACH AND RETAIN THIS STATEMENT
THE ATTACHED CHECK IS IN PAYMENT OF ITEMS DESCRIBED BELOW.
IF NOT CORRECT PLEASE NOTIFY US PROMPTLY. NO RECEIPT DESIRED.

DELUXE - FORM WV-3 V-2

CTB- 11750

DATE	DESCRIPTION	AMOUNT
Sept. 27/84	Royalty on production sold from the Nelson #6-11 well, located Sec. 6 - T33S - R24E - San Juan County, Utah - as per attached copy of Run Ticket and Giant Refining Statement - July 1984: 118.47 Bbls. sold for value..... $3,506.71 Less Transportation..... ($213.25) $3,293.47 $3,293.47 X .125 = ...	$411.68

V-2

MOUNTAIN STATES
RESOURCES, INC.

DETACH AND RETAIN THIS STATEMENT
THE ATTACHED CHECK IS IN PAYMENT OF ITEMS DESCRIBED BELOW.
IF NOT CORRECT PLEASE NOTIFY US PROMPTLY. NO RECEIPT DESIRED.

DELUXE - FORM WV-3 V-2

CTB- 12847

~~This was the separation date of the Oil & Gas Lease~~

DATE	DESCRIPTION	AMOUNT
Sept.16/85	Annual rental on Oil & Gas Lease dated March 1.1984 by and between Morris E. Nelson and Mountain Fuel Supply, later Mtn. Fuel Supply assigns and transfers to Mountain States Resources, Inc. on Sept.26, 1984 the following: Township 33 South, Range 24 East,SLM. Sec.6: Lots 6,7,$E\frac{1}{2}SW\frac{1}{4}$,$SW\frac{1}{4}SE\frac{1}{4}$ Sec.7: Lot 1,$NE\frac{1}{4}NW\frac{1}{4}$,$NW\frac{1}{4}NE\frac{1}{4}$ located in San Juan County, Utah. 310.42 acres.....$1.00 per acre Rental.....	$311.00

I did accept the rent — but never signed any agreements.

V-2

MOUNTAIN STATES
RESOURCES, INC.

DETACH AND RETAIN THIS STATEMENT
THE ATTACHED CHECK IS IN PAYMENT OF ITEMS DESCRIBED BELOW.
IF NOT CORRECT PLEASE NOTIFY US PROMPTLY. NO RECEIPT DESIRED.

DELUXE - FORM WV-3 V-2

CTB- 12014

DATE	DESCRIPTION	AMOUNT
Nov. 27/84	One year rental on Oil & Gas Lease - Morris E. Nelson - Vega Prospect - San Juan County, Utah - 11/4/84 - 11/4/85 (Nelson #6-11 Well)	$310.42

V-2

STATE FARM INSURANCE

MORRIS E. NELSON, Agent
Auto– Life– Health– Home and Business

RECEIVED
NOV 10 1986
DIVISION OF
OIL, GAS & MINING

021820

~~P.O. Box 870 176 Blue Mountain Drive Monticello, Utah 84535~~
~~Phone: Off. 587-2521 Res. 587-2521~~

170 W Life Drive
Salina, Utah 84654

Dear John Baza,

Several days ago, I talked with you on the phone about the problem I am having with Mountain States Resources in completing the closing of their well on my property near Monticello, Utah. I have gone through my files, and I can't find the original lease with Mountain Fuel. I did retain a copy of the check stub where in Mt. States indicates on March 1, 1984 that the lease was "assigned to" Mt. States Resources. I made a photostatic copy of this and two other rent payments that

(over)

were made to me. There may be a recording of the original deed in the San Juan Recorders files. If it is needed, I'll have research made and copy made of this information.

Please let me know what is ~~o~~ needed and I'll do my best to locate the information. We have just moved from Monticello, and I am afraid I have misplaced or thrown away things that I thought at the time ~~that~~ were out of date—

Thanks again for your help.

Yours truly,

Morris E. Veltz

Mountain States Resources

Nelson #6-11

Sec.6-33S-24E, San Juan Co.

Jan. 7, 1987

API # 43-037-30554

Attachment I

Individual Well Summary

Well Name:	Morris Nelson #6-11
API No.:	43-037-30554
Location:	2130' FSL 1820' FWL, NE/SW, Sec.6, T.33S, R.24E, San Juan County, Utah
Initial Operator:	Worldwide Exploration Consultants, Inc.
Current Operator:	Mountain States Resources, Inc. P.O. Box 176 Cutbank, Montana 59427
Lease No.:	Fee
Bond Status:	Blanket Bond #5056108, $50,000, The Hartford Insurance Group
Current Well Status:	Shut-in Oil Well
Inspection History:	
7-31-84:	Inspected by Pat deGruyter
1- 7-87:	Inspected by Glenn Goodwin & Carol Revelt
Correspondence History:	
4-30-80	From Worldwide Exploration Consultants, Inc.; APD for Vega #1, for Paradox test, proposed depth 5900'.
5-14-80	From Worldwide Exploration Consultants; Bond and Power of Attorney for Vega #1, Bond #146F3733, Travelers Indemnity Co., penal sum of $10,000.
5-23-80	From DOGM; APD approved May 20, 1980, assigned API NO. 43-37-30554.
9- 4-80	From Mountain States Resources, Inc.; APD with change of operator and well name to Mountain States Resources, Inc., Nelson #6-11
11- 7-80	From DOGM; APD approval October 10, 1980
11-12-80	From Mountain States; acknowledge APD approval letter and inquiry if well is being carried in the name of Mountain States Resources, Inc.

2-17-81	From Mountain States; APD form with information stating that Nelson #6-11 was drilled to total depth of 6,155' depth reached on February 16, 1981, 5 1/2" production casing set to total depth.
2-19-81	From Mountain States; Final log on Nelson #6-11, included drill stem test reports and well logging reports.
6- 9-81	From DOGM; requesting monthly drilling reports for December 1980 to May 1981.
6- 9-81	From DOGM; requesting Well Completion Report and Log.
6-11-81	From Mountain States; acknowledge DOGM letter and enclosed daily drilling summary September 22, 1980 to February 16, 1981.
6-11-81	From Mountain States; acknowledge DOGM letter and stated they are in the process of completing said well, waiting on lease equipment, completion report will be field after equipment installed, well is completed and on production.
2- 3-82	From DOGM; requesting Well Completion Report and Log.
4- 5-82	From DOGM; requesting Well Completion Report and Log within 14 days or file will be turned over to DOGM Attorney for legal action.
4-23-82	From DOGM Attorney; if information on all activities and production not received by May 3, 1982, a Board hearing will be scheduled and request a moratorium on your future drilling application and operations.
4-30-82	From DOGM Attorney; Mountain States Operations Manager in Canada, time extension granted, well not completed, anticipate completion summer, 1982.
9-28-82	From DOGM; Nelson #6-11 inspected by staff September 3, 1982, well producing on pump, request Well Completion Report.

10-13-82	From Mountain States; attempting to evaluate well results, initial production 41 BOPD and 10 BWPD, rapid decline to 5 bbl oil per week. Information included formations and intervals, perforations, acid treatments, and production.
12-20-82	From Mountain States; Well Completion Report, well shut-in as of December 1, 1982 and will be until spring, 1983.
6-13-84	From Mountain States; Sundry Notice, propose to plug and abandon, Approved June 19, 1984.
12-15-84	From Mountain States; enclosed Report of Operations and Well Status Report for November 1984. (Report not in file)
8- 5-85	Inspection report; shut-in oil well, no well sign, reserve pit not fenced, gas leak from wellhead.
9-23-86	From DOGM; Mr. Morris Nelson requests well be plugged and abandoned, sundry notice from Mountain States proposed to plug and abandon approved June 19, 1984, DOGM requests plan to resolve matter within 15 days.
9-26-86	From Hartford Insurance; request number of permits covered by blanket bond #5056108, Hartford not willing to accept additional liability under captioned bond effective December 20, 1986.
10-17-86	From DOGM; blanket bond #5056108 covers three wells, Morris Nelson #6-11, Edris Calvert #1, and Redd #11-1, additional liability limited to above wells.
11-10-86	From Mr. Morris Nelson; requests help in requiring Mountain States to properly plug and abandon well.
1- 7-87	Inspection Report; shut-in oil well, no well sign, reserve pit has been filled, deadmen anchors not removed.

Problem Summary:

Morris Nelson #6-11, spudded September 22, 1980 with dry hole spudder and had drilled 2,720' prior to APD approval on October 10, 1980, reached total depth February 16, 1981. Well has been shut-in since December 1, 1982. Mountain States has failed to submit Monthly Drilling Reports, Well Completion Reports, and Log. A daily drilling summary was supplied after one request. The Well Completion Report and Log was supplied after five requests and the threat of legal action. The well site has no well sign, reserve pit not fenced, and has gas leak at wellhead.

Recommended Action:

Mountain States, Sundry Notices dated June 13, 1984 stated this well has not attained commercial production and proposed to plug and abandon. It is recommended the Morris Nelson #6-11 be properly plugged and abandoned, and the location be reclaimed.

Division of Oil, Gas and Mining

PHONE CONVERSATION DOCUMENTATION FORM

Route original/copy to:

[] **Well File** _____

(Location) Sec___Twp___Rng___

(API No.) _____

[] **Suspense**

(Return Date) _____

(To - Initials) _____

[] **Other** _____

1. Date of Phone Call: 12/20/89 Time: 9 50 AM till 10 03 AM

2. DOGM Employee (name) Glenn Goodwin (Initiated Call [T])

Talked to:

Name Joe McIlvan (Initiated Call [ ]) - Phone No. (406) 873-2235

of (Company/Organization) Mountain States

3. Topic of Conversation: Edris Calvert #1 43-037-30972 5-35 34S-25E sign + Gauge;

Redd #11-1 S-11 33S 23E 43-037-30697 sign

morris nelson #6-11 S-6-33S-24E sign

4. Highlights of Conversation: gave 30 days for signs & Put Value under Gauge on Calvert #1

He told me that Redd 11-1 & nelson 6-11 are P&A'd & was given to Land owners the Land owners wanted to leave well heads on. He said this is on monthly reports he send's in.

MOUNTAIN STATES RESOURCES, INC.

A Subsidiary of MSR Exploration Ltd.

OIL & GAS EXPLORATION & PRODUCTION

O P E R A T I N G I N T H E R O C K Y M O U N T A I N S

CBM Building - Box 250 - Cut Bank, Montana 59427-0250 - (406) 873-2235

December 20, 1989

State of Utah
Division of Oil, Gas and Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, UT 84180-1203

RE: Annual Reports of Shut-In Wells
M.S.R. Federal 25-1X, Morris Nelson 6-11, Redd Investment 11-1,
and Edris Calvert No. 1 - San Juan County, Utah

Gentlemen:

Reference your letter of December 1, 1989 to Utah oil and gas well operators regarding annual well status reports.

Please find enclosed a Form 9 for each of the above captioned wells, reporting their status as shut-in oil or gas wells.

Trusting you will find everything in order, I remain

Yours very truly,

MOUNTAIN STATES RESOURCES, INC.

J. V. Montalban - President
Manager of Operations

JVM/rr

Enclosures

cc: BLM - Moab
BLM - SLC

FORM 9

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

RECEIVED
JAN 12 1990
DIVISION OF OIL, GAS & MINING

1. OIL WELL [X] GAS WELL [ ] OTHER

2. NAME OF OPERATOR: MOUNTAIN STATES RESOURCES, INC.

3. ADDRESS OF OPERATOR: P.O. Box 250 - Cut Bank, Montana 59427

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)
At surface: 1820' FWL & 2130' FSL, Sec. 6
At proposed prod. zone:

5. LEASE DESIGNATION & SERIAL NO.: Fee

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: Morris Nelson

9. WELL NO.: 6-11

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 6, T33S, R24E, S.L.M.

14. API NO.	15. ELEVATIONS (Show whether DF, RT, GR, etc.)	12. COUNTY	13. STATE
42-037-30554	6915' GL	San Juan	Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	[ ]	PULL OR ALTER CASING	[ ]	WATER SHUT-OFF	[ ]	REPAIRING WELL	[ ]
FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]	FRACTURE TREATMENT	[ ]	ALTERING CASING	[ ]
SHOOT OR ACIDIZE	[ ]	ABANDON	[ ]	SHOOTING OR ACIDIZING	[ ]	ABANDONMENT*	[ ]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]	(Other)			
(Other) Annual Status Report			[ ]	(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			
APPROX. DATE WORK WILL START				DATE OF COMPLETION			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

* Must be accompanied by a cement verification report.

Mountain States Resources, Inc., Operator of the Morris Nelson 6-11, requests approval to continue shut-in status for the well. The well is shut-in under stripper and marginal well regulations and it continues to be uneconomical to produce at current oil prices. All equipment has been removed and the location backfilled and leveled.

OIL AND GAS	
DRN	RJF
1-JRB ✓	GLH
DTS	SLS
2-TAS	
3- MICROFILM ✓	
4- FILE	

18. I hereby certify that the foregoing is true and correct

SIGNED J. V. Montalban TITLE President DATE December 20, 1989

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

See Instructions On Reverse Side

(3/89)

FORM 10

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

MONTHLY OIL AND GAS PRODUCTION REPORT

OPERATOR NAME AND ADDRESS:

RECEIVED
JAN 18 1994
DIVISION OF OIL, GAS & MINING

PATRICK M MONTALBAN
MOUNTAIN STATES RES INC
PO BOX 250
CUT BANK MT 59427

UTAH ACCOUNT NUMBER: N2610

REPORT PERIOD (MONTH/YEAR): 11 / 93

AMENDED REPORT ☐ **(Highlight Changes)**

Well Name / API Number / Entity / Location	Producing Zone	Well Status	Days Oper	Production Volumes OIL(BBL)	GAS(MCF)	WATER(BBL)
MORRIS NELSON 6-11 4303730554 09950 33S 24E 6	PRDX	SOW	0	0	0	0
REDD #11-1 4303730697 09955 33S 23E 11	ISMY	SOW	0	0	0	0
EDRIS CALVERT #1 4303730972 09956 34S 25E 35	HRMS	SGW	0	0	0	0
			TOTALS	0	0	0

COMMENTS: Morris Nelson #6-11 is shut-in, all equipment remove and location backfilled and leveled. Redd #11-1 is shut-in, all equipment removed and location backfilled and leveled. Edris Calvert is shut-in, gas well pending market outlet.

I hereby certify that this report is true and complete to the best of my knowledge.

Date: December 28, 1993

Name and Signature: Patrick M. Montalban - Mgr. of Operations

Telephone Number: (406) 873-2235

(6/93)

FORM=NR0001.FRM 07/27/93

03/29/94 D E T A I L W E L L D A T A menu: opt 00

api num:	4303730554	prod zone: PRDX	sec	twnshp	range qr-qr
entity:	9950 : MORRIS NELSON 6-11		6	33.0 S	24.0 E NESW

well name: MORRIS NELSON 6-11
operator: N2610 : MOUNTAIN STATES RES INC meridian: S
field: 1 : WILDCAT
confidential flag: confidential expires: alt addr flag:
* * * application to drill, deepen, or plug back * * *

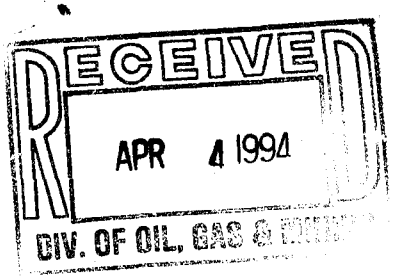
lease number:	FEE	lease type:	4	well type:	OW
surface loc:	2130 FSL 1820 FWL	unit name:			
prod zone loc:	2130 FSL 1820 FWL	depth:	6000	proposed zone:	PRDX
elevation:	6151' KB	apd date:	800523	auth code:	C-3
* * completion information * *		date recd:		la/pa date:	
spud date:	810120	compl date:	810916	total depth:	6155'

producing intervals: 6125-6140',5690-5905'

bottom hole:	2130 FSL 1820 FWL	first prod:	820915	well status:	SOW
24hr oil: 41	24hr gas:	24hr water:	5	gas/oil ratio:	
* * well comments:				api gravity:	

850228 ENTITY ADDED:800904 OPER FR WORLDWIDE EXPLOR:

opt: 21 api: 4303730554 zone: date(yymm): enty acct:



170 North White Drive
Salina, Utah 84654
March 31, 1994

State of Utah
Department of Oil, Gas and Mining
3 Triad Center, Suite 350
Salt Lake City, Utah 84180

Dear Mr. Mathews,

In pursuant to our conversation in your office on March 29, 1994, concerning the obligation of plugging the abandoned well known as the Morris Nelson No. 6-11, (Township 33 So. R24 E. SLM., Sec 6: Lots 6,7, E½SW½, containing 310.42 ac. including well sight Morris Nelson No. 1 well in NESW Sec. 6 San Juan Cty.). I am requesting your office to assist in getting Mountain States Resources, Inc., to carry out their obligation of releasing the well sight back to the owner after the well has been properly plugged as the State of Utah statutes require. Please note the well sight has not been released from Mountain States Resources. Why? I do not know.

There is new interest in the property, but the involved leasees want the well plugged as an abandoned well before closing their agreement.

I have contacted Mr. Montablan of Mountain States Resources who drilled the well at Box 1995, Cut Bank, Montana 59427-1995 (406-873-2235) several times but he uses excuses for not plugging the well.

I do hope your office can be of help in solving the problem.

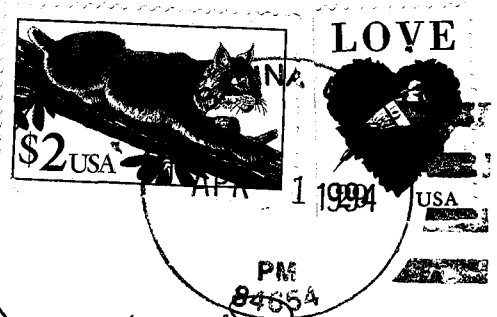
Sincerely,

Morris E. Nelson

Morris Nelson

M E Nelson
170 N. W Rife Dr.
Salina, Utah 84654

CERTIFIED
P 219 870 959
MAIL



RETURN RECEIPT REQUESTED

State of Utah
Department of Natural Resources
Division of Oil Gas and Mining
3 Triad Center, Suite 350
Salt Lake City
Utah 84180-1203

FORM 9

STATE OF UTAH

DIVISION OF OIL, GAS AND MINING

5. Lease Designation and Serial Number:	Fee
6. If Indian, Allottee or Tribe Name:	
7. Unit Agreement Name:	
8. Well Name and Number:	Morris Nelson 6-11
9. API Well Number:	43-037-30554
10. Field and Pool, or Wildcat:	Wildcat

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells. Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.

1. Type of Well: OIL [X] GAS [ ] OTHER:

2. Name of Operator: Mercury Exploration Company

3. Address and Telephone Number: P.O. Box 1970 Casper, WY 82602 307-234-1563

4. Location of Well
Footages: 2130' FSL & 1820' FWL
QQ, Sec.,T.,R.,M.: NE/SW Sec. 6 T33S-R24E
County: San Juan
State: Utah

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

NOTICE OF INTENT (Submit In Duplicate)		SUBSEQUENT REPORT (Submit Original Form Only)	
[X] Abandon	[ ] New Construction	[ ] Abandon *	[ ] New Construction
[ ] Repair Casing	[ ] Pull or Alter Casing	[ ] Repair Casing	[ ] Pull or Alter Casing
[ ] Change of Plans	[ ] Recomplete	[ ] Change of Plans	[ ] Reperforate
[ ] Convert to Injection	[ ] Reperforate	[ ] Convert to Injection	[ ] Vent or Flare
[ ] Fracture Treat or Acidize	[ ] Vent or Flare	[ ] Fracture Treat or Acidize	[ ] Water Shut-Off
[ ] Multiple Completion	[ ] Water Shut-Off	[ ] Other	
[ ] Other			

Approximate date work will start: November 15, 1999

Date of work completion:

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form.

* Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

The Morris Nelson #6-11 is an inactive well that Mercury Exploration Company proposes to plug and abandon. The procedure for plugging this well is attached.

RECEIVED
OCT 5 1999
DIV. OF OIL, GAS & MINING

13.
Name & Signature: Ken Hendricks Title: Regional Operation Eng. Date: 9/30/99

(This space for State use only)

APPROVED
The Utah Division of Oil, Gas and Mining
Robert J. Krueger, PE, Petroleum Engineer
Date: 10-6-99

(See Instructions on Reverse Side)

(4\94)

COPY SENT TO OPERATOR
Date: 10-7-99
Initials: CHD

Plugging & Abandonment Procedure
Morris Nelson #6-11
2130' FSL & 1820' FWL
Sec. 6 – T33S – R24E NE ¼ / SW ¼
San Juan County, Utah

1. Set Cast Iron Bridge Plug (CIBP) at 5,750'. Place 17 sacks of cement (minimum yield 1.2 cu. ft per sack) on top of CIBP.
2. RIH with tubing and tag plug. Top of plug must be no lower than 5,650'.
3. Circulate hole. Spot 25 sacks of cement (minimum yield 1.2 cu ft. per sack) from 2286' to 2186'.
4. Perforate 5-1/2" casing at 100'.
5. Place 35 total sacks of cement (minimum yield 1.2 cu ft. per sack) in the 5-1/2" casing and in the 8-5/8" X 5-1/2" annulus.
6. The wellhead will be removed and a "dry-hole" plate will be installed.

MERCURY EXPLORATION

WELL NAME:	Morris Nelson #6-11		
LOCATION:	2130' FSL & 1820' FWL		
SEC/TWP/RNG	6	33S	24E
COUNTY, ST:	San Juan, Utah		
WELL TYPE:	Oil		
MERCURY WI:	100%		

	BOPD	BWPD	MCFD
IP	41	5	tstm

SPUD DATE:	01/20/81
RIG REL:	02/15/81
COMP DATE:	September 1981
FIELD:	Wildcat
FORMATION:	Desert Creek & Ismay
Initial Pr :	N/A

SURFACE CASING DESIGN

8-5/8"

2236' 24 #/FT

SET @ 2236' KB
CEMENT W/ 750 SXS
TAILED W/

PROD CASING DESIGN

5 1/2"

6155' 15.5 #/ft

SET @ 6155' KB
CEMENT W/ 150 SXS
CEMENT TOP @ 5285'
DETER. BY CALCULATED

PROD LINER DESIGN

NONE

SET @
CEMENT W/
CEMENT TOP @
DETER. BY

PERF. DATA:	SPF	FORM.
6125'-6140	4	Desert Cr.
5900-5905	4	Lower Ismay
5760-5780	3	Upper Ismay

TUBING DATA

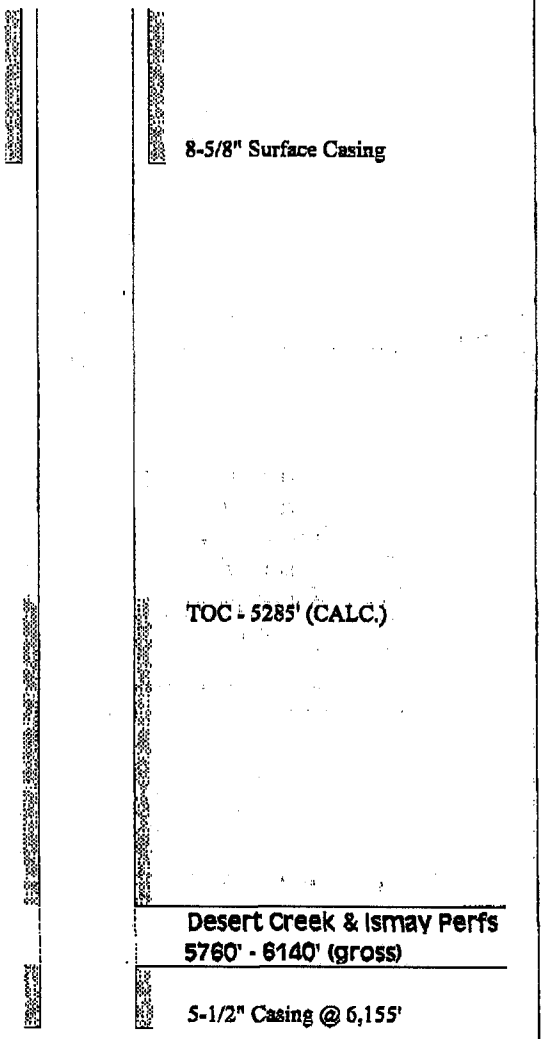
2-3/8" ?

SET @
PACKER TYPE ? ?
S.N ID / @
TBG ANCH. @

API # 43-037-30554

Prepared By : Ken Hendricks
Date : September 27, 1999

MORRIS NELSON #6-11



ACID JOB: Acidize with 4,500 gallons 28% HCL in three separate jobs.

FRAC JOB: NONE

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

5. LEASE DESIGNATION AND SERIAL NUMBER: Fee

SUNDRY NOTICES AND REPORTS ON WELLS

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

7. UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] OTHER

8. WELL NAME and NUMBER: Morris Nelson #6-11

2. NAME OF OPERATOR: Mercury Exploration Company

9. API NUMBER: 43-037-30554

3. ADDRESS OF OPERATOR: PO Box 1970 CITY Casper STATE WY ZIP 82602

PHONE NUMBER: (307) 234-1563

10. FIELD AND POOL, OR WILDCAT: Wildcat

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 2130' FSL & 1820' FWL

COUNTY: San Juan

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NESW 6 33S 24E

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
[ ] NOTICE OF INTENT (Submit in Duplicate)	[ ] ACIDIZE	[ ] DEEPEN	[ ] REPERFORATE CURRENT FORMATION
Approximate date work will start:	[ ] ALTER CASING	[ ] FRACTURE TREAT	[ ] SIDETRACK TO REPAIR WELL
	[ ] CASING REPAIR	[ ] NEW CONSTRUCTION	[ ] TEMPORARILY ABANDON
	[ ] CHANGE TO PREVIOUS PLANS	[ ] OPERATOR CHANGE	[ ] TUBING REPAIR
	[ ] CHANGE TUBING	[x] PLUG AND ABANDON	[ ] VENT OR FLARE
[x] SUBSEQUENT REPORT (Submit Original Form Only)	[ ] CHANGE WELL NAME	[ ] PLUG BACK	[ ] WATER DISPOSAL
Date of work completion: 6/28/2000	[ ] CHANGE WELL STATUS	[ ] PRODUCTION (START/RESUME)	[ ] WATER SHUT-OFF
	[ ] COMMINGLE PRODUCING FORMATIONS	[ ] RECLAMATION OF WELL SITE	[ ] OTHER:
	[ ] CONVERT WELL TYPE	[ ] RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The plugging and abandonment of the Morris Nelson #6-11 commenced on 6/26/00 and was completed on 6/28/00. The Division of OG&M was notified on 6/27/00. The plugging details are shown below and a detailed summary of the procedure is also attached.

MI & RU A-Plus Well Service.
Circulate the hole with water. Run a bit and a 5-1/2" casing scraper to 5730'. Set a 5-1/2" cement retainer at 5730'. Spot a 17 sack cement plug from 5730' to 5580'.
Spot a 25 sack cement plug from 2302' to 2081'.
Perforated 3 squeeze holes at 100'. Establish circulation with 25 bbls. of water. Pump 43 sacks cement down the 5-1/2" casing

Cut off wellhead and cement at surface with 8 sacks. Install P&A plate and RD.

NAME (PLEASE PRINT): Ken Hendricks TITLE: Regional Operations Manager

SIGNATURE: DATE: 7/24/2000

(This space for State use only)

RECEIVED
JUL 26 2000
DIVISION OF
OIL, GAS AND MINING

(5/2000) (See Instructions on Reverse Side)

INSTRUCTIONS

Thisformshallbesubmittedbytheoperatortoshowtheintentionand/orcompletionofthefollowing:

- miscellaneousworkprojectsandactionsforwhichotherspecificreportformsdonotexist;
- allotherworkandeventsasidentifiedinsection11,TypeofAction,orasrequiredbytheUtahOilandGas ConservationGeneralRules,including:
  - -minordeepeningofanexistingwellbore,
  - -pluggingbackawell,
  - -recompletingtoadifferentproducingformationwithinanexistingwellbore(intentonly),
  - -reperforatingthecurrentproducingformation,
  - -drillingasidetracktorepairawell,
  - -reportingmonthlythestatusofeachdrillingwell.

Thisformisnottobeusedfor <u>proposals</u>**to**

- -drillnewwells,
- -reenterpreviouslypluggedandabandonedwells,
- -significantlydeepenexistingwellsbelowtheircurrentbottom-holedepth,
- -drillhorizontallateralsfromanexistingwellbore,
- -drillhydrocarbonexploratoryholessuchascoresamplesandstratigraphictests.

UseForm3,ApplicationforPermittoDrill(APD)forsuchproposals.

NOTICEOFINTENT-Anoticeofintentiontodoworkonawellortochangeplanspreviouslyapprovedshallbe submittedinduplicateandmustbereceivedandapprovedbythedivisionbeforetheworkiscommenced.The operatorisresponsibleforreceiptofthenoticebythedivisioninampletimeforproperconsiderationandaction. Incasesofemergency,theoperatormayobtainverbalapprovaltocommencework.Withinfivedaysafterreceiving verbal approval, the operator shall submit a Sundry Notice describing the work and acknowledging the verbal approval.

SUBSEQUENTREPORT-Asubsequentreportshallbesubmittedtothedivisionwithin30daysofthecompletion ofthe outlined work. Specific details of the work performed should be provided, including dates, well depths, placementofplugs,etc.

WELLABANDONMENT-Proposalstoabandonawellandsubsequentreportsofabandonmentshouldinclude reasons for the abandonment; data on any former or present productive zones, or other zones with present significantfluidcontentsnotsealedoffbycementorotherwise;depths(topandbottom)andmethodofplacement ofcementplugs;mudorothermaterialplacedbelow,betweenandaboveplugs;amount,size,andmethodofparting ofanycasing,liner,ortubingpulledandthedepthtotopofanyleftinthehole;methodofclosingtopofwell;and datewellsiteconditionedforfinalinspectionlookingtoapprovaloftheabandonment.

InadditiontoanySundryNoticeformssubmitted, **Form8,WellCompletionorRecompletionReportandLog** mustbesubmittedtothedivisiontoreportthe <u>results</u>ofthefollowingoperations:

- completingorpluginganewwell,
- reenteringapreviouslypluggedandabandonedwell,
- significantlydeepeninganexistingwellborebelowthecurrentbottom-holedepth,
- drillinghorizontallateralsfromanexistingwellbore,
- drillinghydrocarbonexploratoryholessuchascoresamplesandstratigraphictests,
- recompletingtoadifferentproducingformation.

Sendto:

UtahDivisionofOil,GasandMining
1594WestNorthTemple,Suite1210
Box145801
SaltLakeCity,Utah84114-5801

Phone: 801-538-5340
Fax: 801-359-3940

(5/2000)

A-PLUS WELL SERVICE, INC.
P.O. BOX 1979
FARMINGTON, NM 87499
505-325-2627 • FAX: 505-325-1211

June 29, 2000

Mercury Exploration Company
Morris Nelson #6-11
Unit K, NE, SW Section 6, T-33-S, R-24-E
San Juan County, UT
Fee, API #43-037-30445

Plug & Abandonment Report

Cementing Summary:

Plug #1 with retainer at 5730', spot 17 sxs Class B cement inside casing up to 5580' to isolate Ismay interval and to cover Desert Creek top.

Plug #2 with 25 sxs Class B cement inside casing from 2302' to 2081' to cover 8-5/8" casing shoe and Culter top.

Plug #3 with 43 sxs Class B cement pumped down the 5-1/2" casing from 100' to surface, circulate 1 bbl good cement out bradenhead.

Plugging Summary: Notified Utah Division of O, G&M on 6/27/00

6-26 Safety Meeting. RU rig and equipment; layout relief line to pit. Open up well and start to blow down 350# tubing pressure and 400# casing pressure; yellowish oil flowing. Shut in well and line pit. Attempt to pump down tubing, pumped 3 to 4 bbls and started circulating clean water. Attempt to pump down casing with tubing shut in; pumped 20 bbls water and pressured up to 1000#. Blow down tubing and casing slowly to contain oil in lined pit. Pump additional 60 bbls water down casing to kill well. ND wellhead and LD single joint tubing. NU BOP and test. Dig out wellhead and install new 2" valve. PU and TIH with 125 joints 2-3/8" tubing with 5-1/2" casing scraper and 4-3/4" bit. Shut in well and SDFD.

6-27 Safety Meeting. Open up well and blow down 30# casing pressure and 10# tubing pressure. Continue to TIH with bit and tubing to 5730'. TOH and LD BHA. TIH and set 5-1/2" DHS cement retainer at 5730'. Pressure test tubing to 1000#, held OK. Sting out of retainer and pressure test casing to 500#, held OK. Plug #1 with retainer at 5730', spot 17 sxs Class B cement inside casing up to 5580' to isolate Ismay interval and to cover Desert Creek top. PUH to 2302'. SI well & SDFD.

6-28: Safety Meeting. Open up well, no pressure. Plug #2 with 25 sxs Class B cement inside casing from 2302' to 2081' to cover 8-5/8" casing shoe and Culter top. TOH with tubing. RU A-Plus wireline truck. Perforate 3 HSC squeeze holes at 100'. Establish circulation out bradenhead with 25 bbls water. Plug #3 with 43 sxs Class B cement pumped down the 5-1/2" casing from 100' to surface, circulate 1 bbl good cement out bradenhead. Shut in well and WOC. RD floor and ND BOP. Dig out wellhead; found cement down 10' in 5-1/2" casing and down 8' in 8-5/8" casing. Mix 8 sxs Class B cement and install P&A plate marker. RD and MOL.

CANTEY & HANGER, L.L.P.
ATTORNEYS AT LAW

WHITNEY L. CARDWELL
DIRECT DIAL 817-877-2804
E-MAIL wcardwell@canteyhanger.com

801 CHERRY STREET ▪ SUITE 2100
FORT WORTH, TEXAS 76102-6821
817-877-2800 ▪ METRO 817-429-3815
FAX 817-877-2807

43-037-30554

March 13, 2001

VIA FEDERAL EXPRESS

Mr. Al McKee
Utah Division of Oil, Gas & Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

Re: Mercury Exploration Company

Dear Mr. McKee:

As per our conversation yesterday, attached are the following Sundry Notices and Reports on Wells:

1. Redd Investment Corp. #11-1;

2. Morris Nelson #6-11; and

3. Edris Calvert #1.

Ken Hendricks, Regional Operations Manager of Mercury Exploration Company, submitted the above referenced reports to Bob Krueger at the Utah Division of Oil, Gas & Mining in July 2000. We need to determine the filing date of these notices because the Utah State Tax Commission is sending 2001 Annual Returns and 2001 Returns of Assessment concerning these three wells. These reports are being generated because the Tax Commission's records indicate that the wells have not been plugged and abandoned. However, all of these wells were plugged by July 6, 2000.

Thank you for your assistance. Please contact me if you have any questions.

Sincerely,

Whitney L. Cardwell

Whitney L. Cardwell

Enclosures

RECEIVED
MAR 14 2001
DIVISION OF
OIL, GAS AND MINING

cc: Dean A. Tetirick - Firm (w/o encl)
Barbara Turley - Quicksilver (w/o encl)

I:\LGL\WCARDWEL\Quicksilver\Letters\2001\utah.oil-gas.wpd

FORM 9

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION AND SERIAL NUMBER: Fee

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:

8. WELL NAME and NUMBER: Morris Nelson #6-11

9. API NUMBER: 43-037-30554

10. FIELD AND POOL, OR WILDCAT: Wildcat

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] OTHER

2. NAME OF OPERATOR: Mercury Exploration Company

3. ADDRESS OF OPERATOR: PO Box 1970 CITY Casper STATE WY ZIP 82602

PHONE NUMBER: (307) 234-1563

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 2130' FSL & 1820' FWL [redacted]
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NESW 6 33S 24E [redacted]

COUNTY: San Juan [redacted]
STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
[ ] NOTICE OF INTENT (Submit in Duplicate)	[ ] ACIDIZE	[ ] DEEPEN	[ ] RE-PERFORATE CURRENT FORMATION
Approximate date work will start:	[ ] ALTER CASING	[ ] FRACTURE TREAT	[ ] SIDETRACK TO REPAIR WELL
	[ ] CASING REPAIR	[ ] NEW CONSTRUCTION	[ ] TEMPORARILY ABANDON
[X] SUBSEQUENT REPORT (Submit Original Form Only)	[ ] CHANGE TO PREVIOUS PLANS	[ ] OPERATOR CHANGE	[ ] TUBING REPAIR
Date of work completion: 6/28/2000	[ ] CHANGE TUBING	[X] PLUG AND ABANDON	[ ] VENT OR FLARE
	[ ] CHANGE WELL NAME	[ ] PLUG BACK	[ ] WATER DISPOSAL
	[ ] CHANGE WELL STATUS	[ ] PRODUCTION (START/RESUME)	[ ] WATER SHUT-OFF
	[ ] COMMINGLE PRODUCING FORMATIONS	[ ] RECLAMATION OF WELL SITE	[ ] OTHER:
	[ ] CONVERT WELL TYPE	[ ] RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The plugging and abandonment of the Morris Nelson #6-11 commenced on 6/26/00 and was completed on 6/28/00. The Division of OG&M was notified on 6/27/00. The plugging details are shown below and a detailed summary of the procedure is also attached.

MI & RU A-Plus Well Service.
Circulate the hole with water. Run a bit and a 5-1/2" casing scraper to 5730'. Set a 5-1/2" cement retainer at 5730'. Spot a 17 sack cement plug from 5730' to 5580'.
Spot a 25 sack cement plug from 2302' to 2061'.
Perforated 3 squeeze holes at 100'. Establish circulation with 25 bbls. of water. Pump 43 sacks cement down the 5-1/2" casing

Cut off wellhead and cement at surface with 8 sacks. Install P&A plate and RD.

NAME (PLEASE PRINT) Ken Hendricks TITLE Regional Operations Manager

SIGNATURE [signature] DATE 7/24/2000

(This space for State use only)

RECEIVED
MAR 14 2001
DIVISION OF
OIL, GAS AND MINING

(See Instructions on Reverse Side)

(5/2000)

INSTRUCTIONS

This form shall be submitted by the operator to show the intention and/or completion of the following:
- miscellaneous work projects and actions for which other specific report forms do not exist;
- all other work and events as identified in action 11, Type of Action, or as required by the Utah Oil and Gas Conservation General Rules, including:
  - -minor deepening of an existing wellbore,
  - -plugging back a well,
  - -recompleting to a different producing formation within an existing wellbore (intent only),
  - -reperforating the current producing formation,
  - -drilling a sidetrack or repair well,
  - -reporting monthly the status of each drilling well.

This form is not to be used for proposals to
- -drill new wells,
- -reenter previously plugged and abandoned wells,
- -significantly deepen existing wells below their current bottom-hole depth,
- -drill horizontal laterals from an existing wellbore,
- -drill hydrocarbon exploratory holes such as core samples and stratigraphic tests.

Use Form 3, Application for Permit to Drill (APD) for such proposals.

NOTICE OF INTENT - A notice of intention to do work on a well or to change plans previously approved shall be submitted in duplicate and must be received and approved by the division before the work is commenced. The operator is responsible for receipt of the notice by the division in ample time for proper consideration and action. In case of emergency, the operator may obtain verbal approval to commence work. Within five days after receiving verbal approval, the operator shall submit a Sundry Notice describing the work and acknowledging the verbal approval.

SUBSEQUENT REPORT - A subsequent report shall be submitted to the division within 30 days of the completion of the outlined work. Specific details of the work performed should be provided, including dates, well depths, placement of plugs, etc.

WELL ABANDONMENT - Proposals to abandon a well and subsequent reports of abandonments should include reasons for the abandonment; data on any former or present productive zones, or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other materials placed below, between and above plugs; amount, size, and method of parting of any casing, liner, or tubing pulled and the depth to top of any left in the hole; method of closing top of well; and date well site conditioned for final inspection looking to approval of the abandonment.

In addition to any Sundry Notice forms submitted, **Form 8, Well Completion or Recompletion Report and Log** must be submitted to the division to report the results of the following operations:
- completing or plugging a new well,
- reentering a previously plugged and abandoned well,
- significantly deepening an existing wellbore below the current bottom-hole depth,
- drilling horizontal laterals from an existing wellbore,
- drilling hydrocarbon exploratory holes such as core samples and stratigraphic tests,
- recompleting to a different producing formation.

Send to:

Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340
Fax: 801-359-3940

(5/2000)

RECEIVED
MAR 14 2001
DIVISION OF
OIL, GAS AND MINING

A - PLUS WELL SERVICE, INC.
P.O. BOX 1979
FARMINGTON, NM 87499
505-325-2627 • FAX: 505-325-1211

June 29, 2000

Mercury Exploration Company
Morris Nelson #6-11
Unit K, NE, SW Section 6, T-33-S, R-24-E
San Juan County, UT
Fee, API #43-037-30445

Plug & Abandonment Report

Cementing Summary:

Plug #1 with retainer at 5730', spot 17 sxs Class B cement inside casing up to 5580' to isolate Ismay interval and to cover Desert Creek top.

Plug #2 with 25 sxs Class B cement inside casing from 2302' to 2081' to cover 8-5/8" casing shoe and Culter top.

Plug #3 with 43 sxs Class B cement pumped down the 5-1/2" casing from 100' to surface, circulate 1 bbl good cement out bradenhead.

Plugging Summary:

Notified Utah Division of O, G&M on 6/27/00

6-26 Safety Meeting. RU rig and equipment, lay out relief line to pit. Open up well and start to blow down 350# tubing pressure and 500# casing pressure; yellowish oil flowing. Shut in well and line pit. Attempt to pump down tubing, pumped 3 to 4 bbls and started circulating clean water. Attempt to pump down casing with tubing shut in; pumped 20 bbls water and pressured up to 1000#. Blow down tubing and casing slowly to contain oil in lined pit. Pump additional 150 bbls water down casing to kill well. ND wellhead and LD single joint tubing. NU BOP and test. Dig out wellhead and install new 2" valve. PU and TIH with 182 joints 2-3/8" tubing with 5-1/2" casing scraper and 4-3/4" bit. Shut in well and SDFD.

6-27 Safety Meeting. Open up well and blow down 300# casing pressure and 10# tubing pressure. Continue to TIH with bit and tubing to 5730'. TOH and LD BHA. TIH and set 5-1/2" DHS cement retainer at 5730'. Pressure test tubing to 1000#, held OK. Sting out of retainer and pressure test casing to 500#, held OK. Plug #1 with retainer at 5730', spot 17 sxs Class B cement inside casing up to 5580' to isolate Ismay interval and to cover Desert Creek top. Pull to 2302'. SI well & SDFD.

6-28: Safety Meeting. Open up well, no pressure. Plug #2 with 25 sxs Class B cement inside casing from 2302' to 2081' to cover 8-5/8" casing shoe and Culter top. TOH with tubing. RU A-Plus wireline truck. Perforate 3 HSC squeeze holes at 100'. Establish circulation out bradenhead with 25 bbls water. Plug #3 with 43 sxs Class B cement pumped down the 5-1/2" casing from 100' to surface, circulate 1 bbl good cement out bradenhead. Shut in well and WOC. RD floor and ND BOP. Dig out wellhead; found cement down 10' in 5-1/2" casing and down 8' in 8-5/8" casing. Mix 8 sxs Class B cement and install P&A plate marker. RD and MOL.